



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

Handwritten signature of Tracy Hillard in black ink.

Tracy Hillard
Project Engineer

Handwritten signature of Ashley L. Ager in black ink.

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

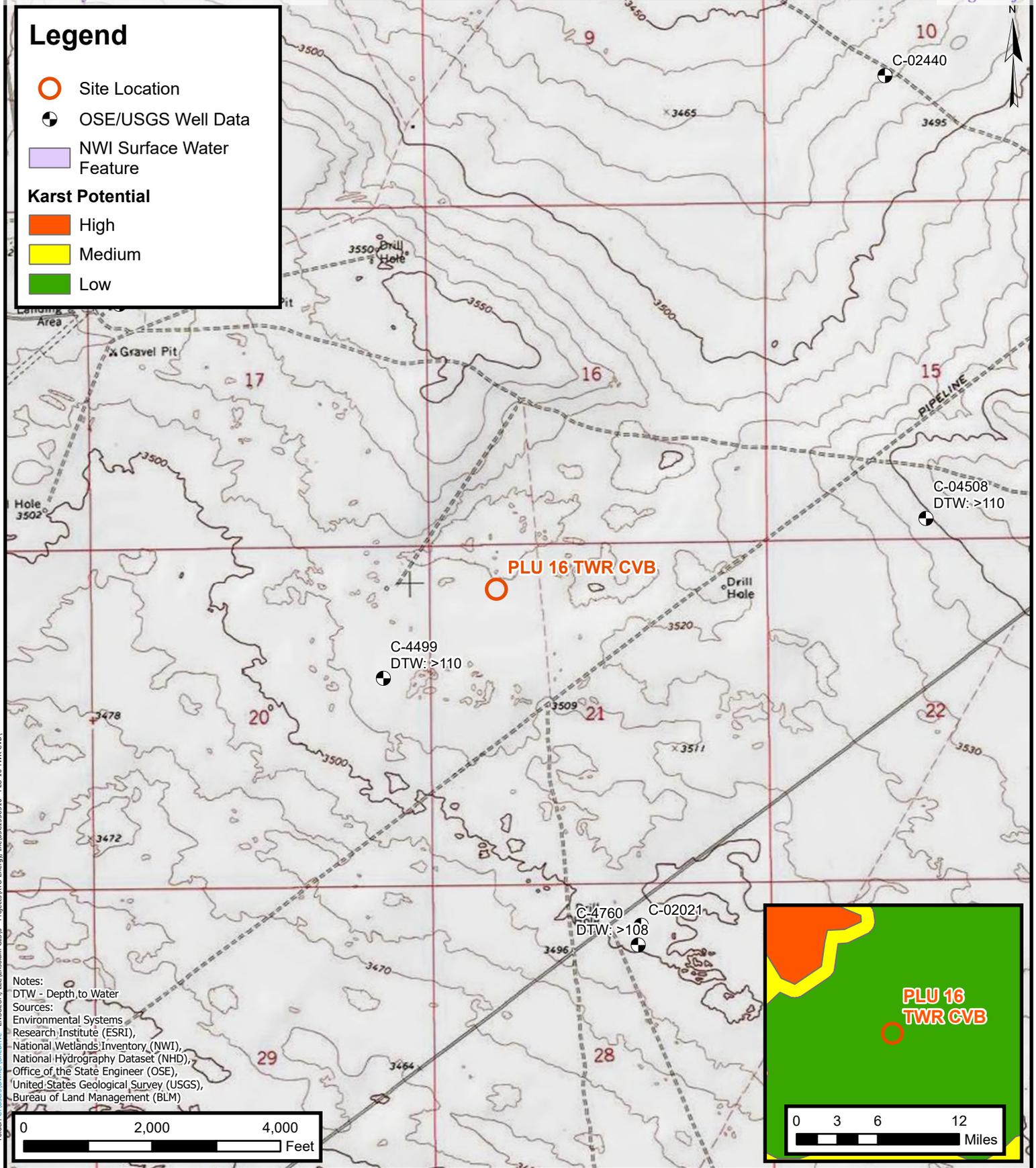
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
Bureau of Land Management

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



Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\OneDrive - ENSOLUM, LLC\Projects\XTO Energy, Inc\03C1598510 - PLU 16 TWR CVB

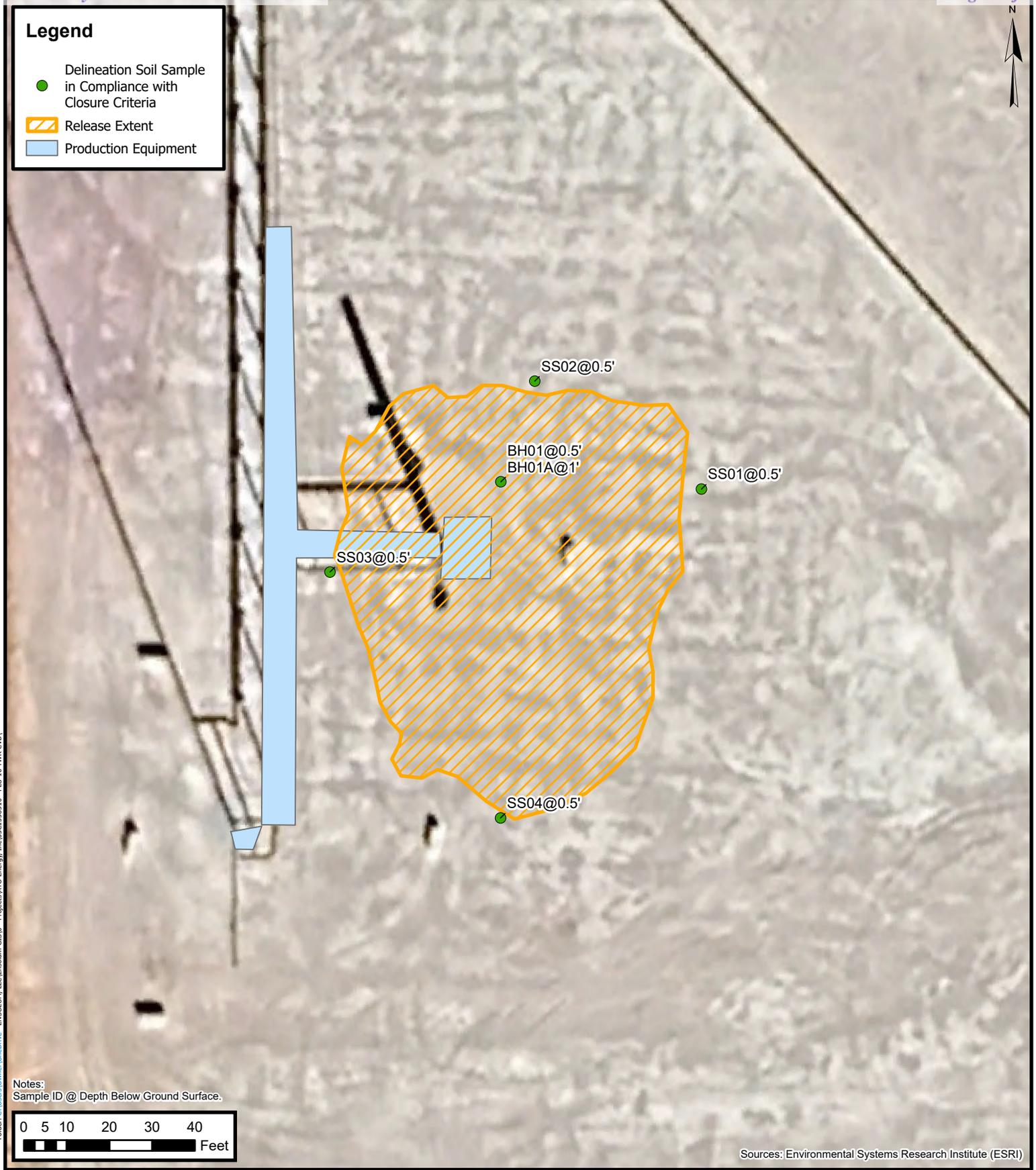


Site Receptor Map
 XTO Energy, Inc
 PLU 16 TWR CVB
 Incident Number: NAPP2422957948
 Unit C, Sec 21, T24S, R31E
 Eddy County, New Mexico

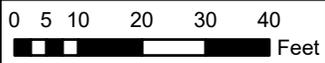
FIGURE
1

Legend

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



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



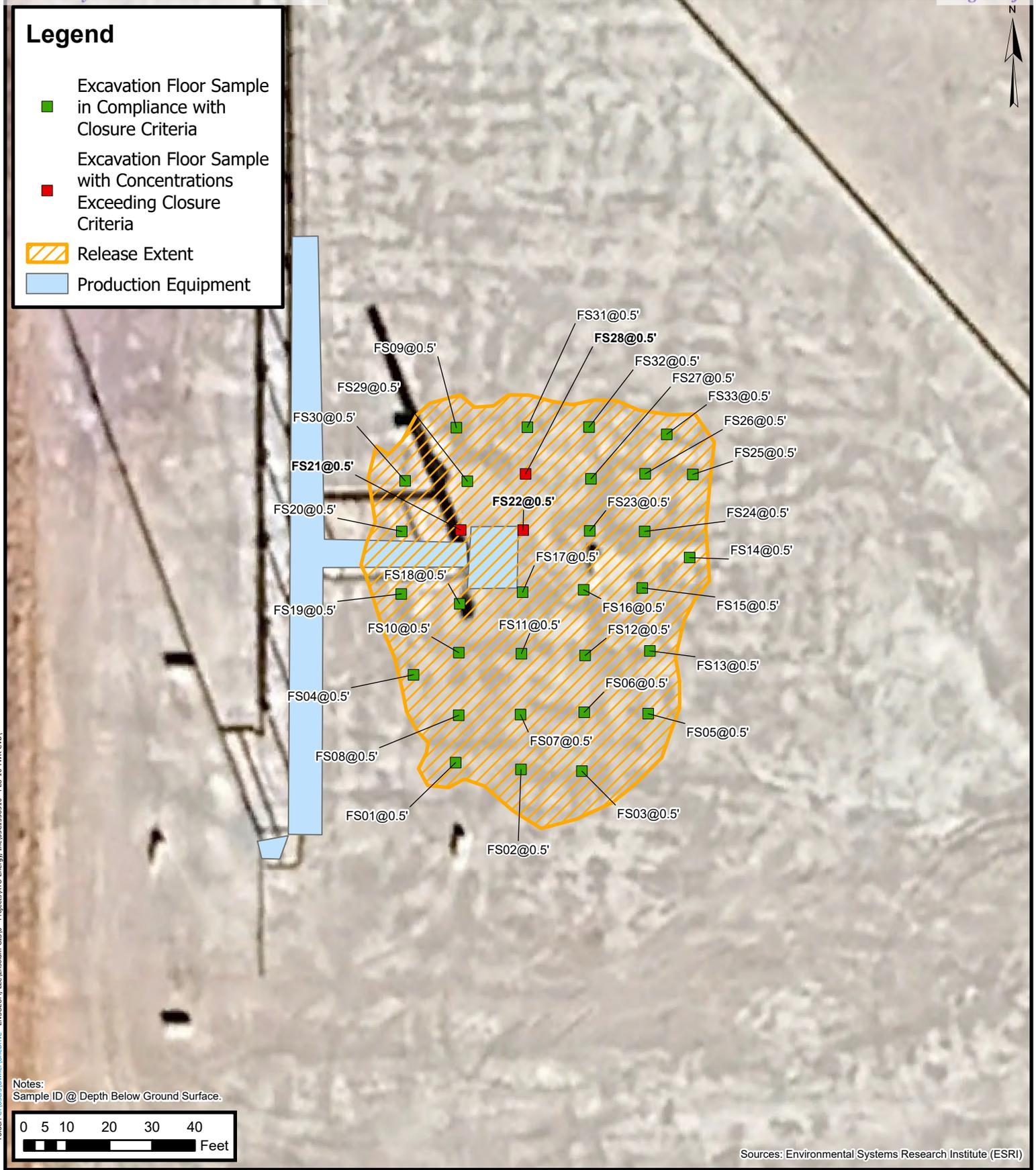
Delineation Soil Sample Locations

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)
NMOCB 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)	LATITUDE	DEGREES 32°	MINUTES 12'	SECONDS 15.89"	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LONGITUDE	-103°	47'	36.29"	W		
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

DSE DIT JAN 27 2021 PM3:34

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:	CBJCHBCAABAAs296c366oCifirLCiy9WDKJlrUnq-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





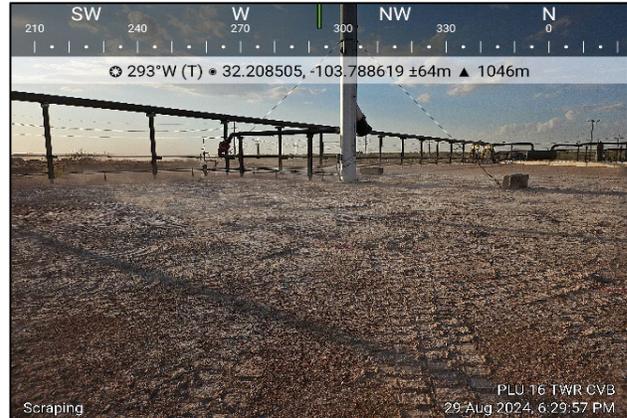
APPENDIX B

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



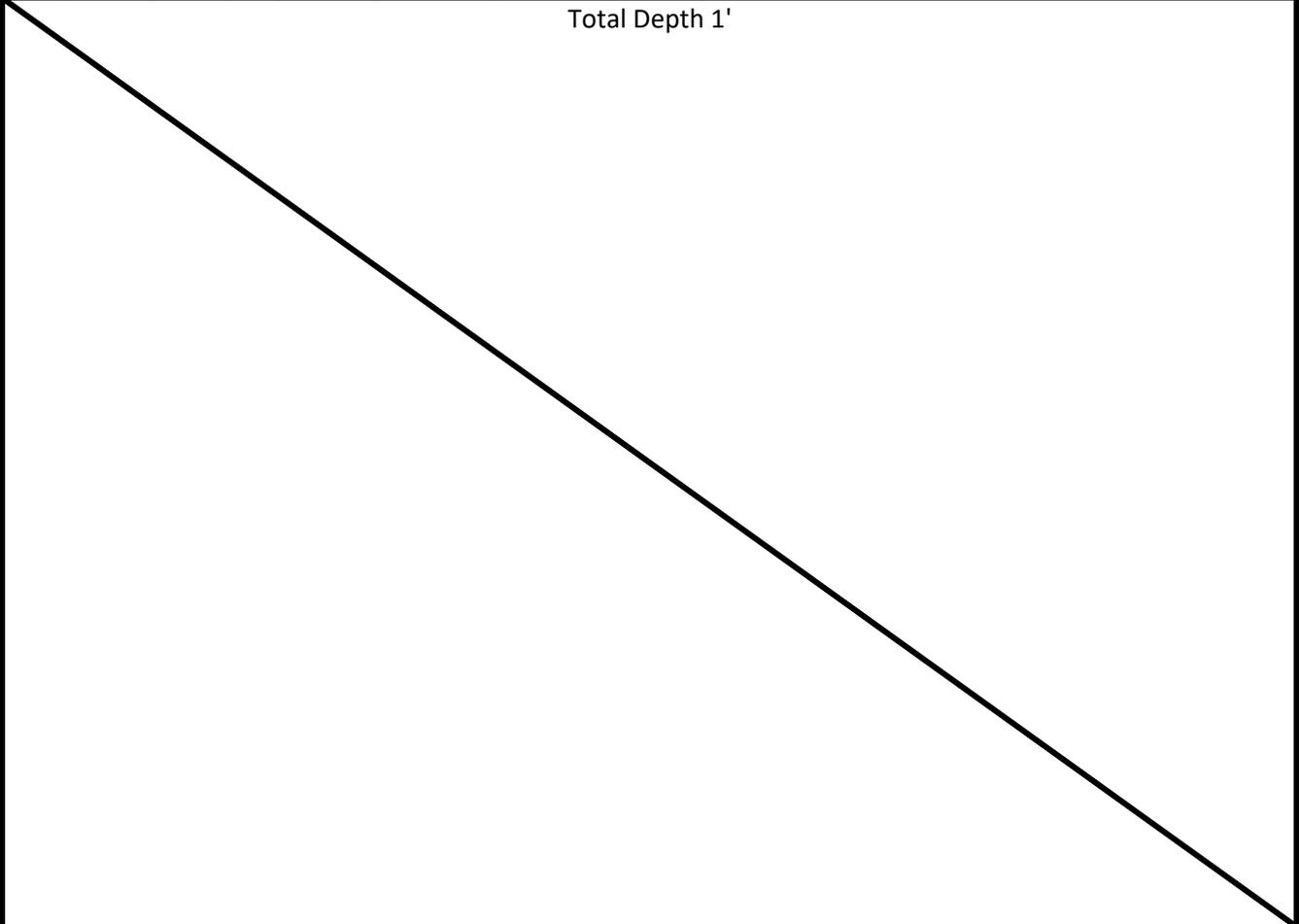
Photograph: 3 Date: 9/9/2024
Description: Sampling activities
View: Southwest

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	CCHE	Tan poorly graded caliche
N	<168	0	N	BH01A	1	1	SP	Brown very fine sand with silt
Total Depth 1'								
								



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".

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	Sampling Date:	08/19/2024
Reported:	08/22/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20841-103.78655		

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

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

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	Sampling Date:	08/19/2024
Reported:	08/22/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20841-103.78655		

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, SM4500CI-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

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

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	Sampling Date:	08/19/2024
Reported:	08/22/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20841-103.78655		

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, SM4500CI-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

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

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	Sampling Date:	08/19/2024
Reported:	08/22/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20841-103.78655		

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, 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	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

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

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

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

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

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
 P.O. #:
 Company: XTO Energy
 Attn: Amy Ruth
 Address: 3104 E. Greene St
 City: Carlsbad
 State: NM Zip: 88220
 Phone #:
 Fax #:
 PRESERV:
 SAMPLING

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HP45030	1	0.5'	G	1	X	X	X	X	X	X	X	8/19/24	12:10	X	X	X
	2	SS02			X	X	X	X	X	X	X		12:15	X	X	X
	3	SS03			X	X	X	X	X	X	X		12:20	X	X	X
	4	SS04			X	X	X	X	X	X	X		12:25	X	X	X

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

Relinquished By: *[Signature]*
 Date: 8/19/24
 Time: 10:34
 Received By: *[Signature]*
 Date:
 Time:
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: BBeall@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com
 REMARKS: Incident: NAPP2422951948
 Cost Center: 2245131001

Delivered By: (Circle One) Observed Temp.: 1.6 Sample Condition Cool Intact Yes No
 Corrected Temp.: 1.0
 Checked By: (Initials) *[Signature]*
 Turnaround Time: Standard Rush
 Bacteria (only) Sample Condition Cool Intact Yes No Yes No
 Corrected Temp.:
 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".

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	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

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	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) 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

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

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	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*	<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

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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, 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*	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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 95.1 % 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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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, 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 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

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 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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, 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 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

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 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

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	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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

BTEX 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 BTEX	18.8	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT				S-04	
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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2024	Sampling Date:	09/09/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.208410,-103.786550		

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

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) 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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene

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

1-3

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

Sampler Name: Uriel Santillana

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy

Attn: Amy Ruth

Address: 3104 E Green st

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE				
18454103	F502	0.5'	C	1						X	9/9/24	1023	Chloride
2	F502											1028	
3	F503											1033	
4	F504											1111	
5	F505											1041	
6	F506											1047	
7	F507											1054	
8	F508											1101	
9	F509											1132	
10	F510											1115	

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

Relinquished By: *[Signature]*

Date: 11/03/24

Received By: *[Signature]*

Time: 1300

Relinquished By: *[Signature]*

Date:

Received By:

Time:

Delivered By: (Circle One)

Observed Temp. °C: 1.32

Sample Condition: Intact

CHECKED BY: *[Signature]*

Sampler - UPS - Bus - Other:

Corrected Temp. °C: 0.72

Cool Intact: Yes

Thermometer ID: #419

Turnaround Time: 24h

Standard: *[Signature]*

Bacteria (only) Sample Condition: Intact

Observed Temp. °C

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

Verbal Result: Yes No Add'l Phone #:

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

REMARKS: Cost center: 2245131001

Incident Number: nAPP2422957948



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2-3

BILL TO

ANALYSIS REQUEST

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
 Sampler Name: Uriel Santillana
 P.O. #: _____
 Company: XTO Energy
 Attn: Amy Ruth
 Address: 3104 E Green st
 City: Carlsbad State: NM Zip: 88220
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	Depth (feet)	MATRIX		DATE	TIME	ANALYSIS REQUEST
			(G)RAB OR (C)OMP.	# CONTAINERS			
11	FS11	0.5'	C	1	9/9/24	1301	Chloride
12	FS12		C	1		1305	BTEX
13	FS13		C	1		1310	TPH
14	FS14		C	1		1316	
15	FS15		C	1		1322	
16	FS16		C	1		1333	
17	FS17		C	1		1338	
18	FS18		C	1		1346	
20	FS20		C	1		1352	

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: _____
 Date: _____
 Time: _____
 Received By: *Spodeigney*
 Date: *11-08-24*
 Time: *1300*
 Observed Temp. °C: *1.34*
 Corrected Temp. °C: *0.74*
 Sample Condition: Yes No
 Cool Intact: Yes No
 CHECKED BY: *SW* (Initials)
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: *thillard@ensolum.com*
 REMARKS: *Cost center: 2245131001*
 Incident Number: *nAPP2422957948*
 Ground Time: *24hr* Standard Bacteria (only)
 Thermometer ID #449-#100 Cool Intact Observed Temp. °C
 Correction Factor: *0.97* No Yes Corrected Temp. °C

FORM-006 (R.3.2.1) 07/17/21

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

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
 Sampler Name: Uriel Santillana
 P.O. #: _____
 Company: XTO Energy
 Attn: Amy Ruth
 Address: 3104 E Green st
 City: Carlsbad State: NM Zip: 88220
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				ACID/BASE:
21	FS21	0.5'	C	1			X				X	9/9/24	1404	Chloride
22	FS22		C	1			X				X		1410	BTEX
23	FS23		C	1			X				X		1417	TPH
24	FS24		C	1			X				X		1422	
25	FS25		C	1			X				X		1429	
26	FS26		C	1			X				X		1458	
27	FS27		C	1			X				X		1504	
28	FS28		C	1			X				X		1515	

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

Relinquished By: _____
 Date: _____
 Received By: _____
 Date: _____
 Observed Temp.: 1.3°C
 Corrected Temp.: 0.7°C
 Sample Condition: Cool Intact Yes No
 Checked By: _____
 Turnaround Time: 24hr Standard Rush
 Thermometer ID: #1486
 Correction Factor: 0.5°C
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Incident Number: nAPP2422957948
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: thillard@ensolum.com tmorrissey@ensolum.com
 REMARKS: Cost center: 2245131001

FORM 5006 R-3-2 10/07/21

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

3-5



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, 88220	Project: 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.

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM 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
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	4091321	HM	13-Sep-24	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

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			74.6 %		48.2-134	4091251	MS	13-Sep-24	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			90.5 %		49.1-148	4091251	MS	13-Sep-24	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM 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
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride	304		16.0	mg/kg	4	4091321	HM	13-Sep-24	4500-CI-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	

<i>Surrogate: 1-Chlorooctane</i>			82.5 %		48.2-134	4091251	MS	13-Sep-24	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			101 %		49.1-148	4091251	MS	13-Sep-24	8015B	
--------------------------------------	--	--	-------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM 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
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride	176		16.0	mg/kg	4	4091321	HM	13-Sep-24	4500-CI-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

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	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

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	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			95.7 %	49.1-148		4091251	MS	13-Sep-24	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM 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
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	4091321	HM	13-Sep-24	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

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	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

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	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			94.0 %	49.1-148		4091251	MS	13-Sep-24	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM 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
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride	144		16.0	mg/kg	4	4091321	HM	13-Sep-24	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			115 %		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	

<i>Surrogate: 1-Chlorooctane</i>			86.6 %		48.2-134	4091251	MS	13-Sep-24	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			106 %		49.1-148	4091251	MS	13-Sep-24	8015B	
--------------------------------------	--	--	-------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM 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	%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	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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			

Cardinal Laboratories

*=Accredited Analyte

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

Caley 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
--	--	------------------------------

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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-BSD1) 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			

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

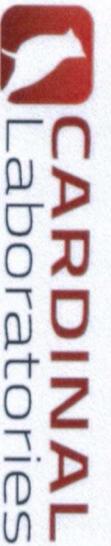
Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene

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

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: Chel Santillana Joshua Boxley
 P.O. #: _____ Company: XTO Energy
 Attn: Amy Ruth
 Address: 3104 E Green st
 City: Carlsbad State: NM Zip: 88220
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
	1 FLS29	0.5	C1	1								9-10-24	1210	X	X	X
	2 FLS30		C1	1								9-10-24	1225	X	X	X
	3 FLS31		C1	1								9-10-24	1235	X	X	X
	4 FLS32		C1	1								9-10-24	1245	X	X	X
	5 FLS33	0.5	C1	1												

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

Relinquished By: [Signature] Date: 9-12-24 Time: _____
 Received By: [Signature] Date: 9-30-24 Time: _____
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

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

Sample Condition: Cool Intact Yes No
 Bacteria (only) Yes No
 Sample Condition: Cool Intact Yes No
 Bacteria (only) Yes No

Turnaround Time: Standard Rush
 Thermometer ID #113-4110
 Correction Factor: -0.5°C

Incident Number: nAPP2422957948
 REMARKS: Cost center: 2245131004
Incident ID changes.
9/17/24

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

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	Sampling Date:	10/23/2024
Reported:	10/28/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/24/2024	Sampling Date:	10/23/2024
Reported:	10/28/2024	Sampling Type:	Soil
Project Name:	PLU 16 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558510	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.208410,-103.786550		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene

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

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 337 257-8307 Fax #: Project Owner: XTO
 Project #: 03C1558510 Project Name: PLU 16 TWR CVB
 Project Location: P.O. #: Company: XTO Energy Inc.
 Attn: Colton Brown
 Address: 3104 E. Green St.
 City: Carlsbad State: NM Zip: 88220
 Phone #: Fax #:

Sampler Name: *Conor Whitman*

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	CHLORIDE
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
<i>H241084</i>	1 BH01	0.5	G	1								10-23-24	1140	/	/	/
	2 BH01A	1	G	1								↓	1150	/	/	/

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

Relinquished By: *[Signature]* Date: *10-24-24* Time: *1445*
 Received By: *[Signature]* Date: *10-24-24* Time: *1445*
 Verbal Result: Yes No Add'l Phone #: *[Blank]*
 All Results are emailed. Please provide Email address: *THillard@ensolum.com, TMorrissey@ensolum.com, kthomason@ensolum.com*
 REMARKS: Cost Center: 2245131001 Incident ID: nAPP2422957948

Delivered By: (Circle One) Observed Temp. °C: *0.1* Sample Condition: Intact Cool Yes No
 Corrected Temp. °C: *-1.3* Checked BY: *[Signature]*
 Turnaround Time: *4 Hrs* Standard Bacteria (only) Sample Condition: Intact Cool Yes No
 Thermometer ID: *444* Rush Corrected Temp. °C: *[Blank]*

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 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	
<i>Please answer all the questions in this group.</i>	
Site Name	PLU 16 TWR CVB
Date Release Discovered	08/14/2024
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: 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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

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

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.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 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

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	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

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	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

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

On what estimated date will the remediation commence	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

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 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)

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	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.

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/11/2024
--	--

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, 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 (##) 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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 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	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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

General Information
Phone: (505) 629-6116

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

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

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