



October 3, 2024

**New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Reclamation Report  
PLU 15 TWR 104 and 903  
Incident Number nAPP2401645721  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc (XTO), has prepared the following *Reclamation Report* for the PLU 15 TWR 104 and 903 (Site). This *Reclamation Report* documents the Site history, reclamation activities completed to date, and proposes revegetation and monitoring activities.

**BACKGROUND**

The Site is located in Unit N, Section 15, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.2112°, -103.76903°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 11, 2024, approximately 33 barrels (bbls) of produced water with friction reducer (FR) was illegally released at the Site. No fluid was recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on January 12, 2024, and submitted an Initial C-141 Application (C-141) on January 16, 2024. The release was assigned Incident Number nAPP2401645721.

Assessment and confirmation soil sampling was completed at the Site in March 2024. Based on the assessment and confirmation soil sample laboratory analytical results, a *Closure Request* was submitted to the NMOCD on July 8, 2024. The NMOCD approved the *Closure Request* on July 16, 2024. Additional details regarding the release, Site Characterization, assessment and confirmation sampling activities, and soil sample analytical results can be referenced in the approved *Closure Request*. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

**RECLAMATION ACTIVITIES**

The release extent measured approximately 5,300 square feet. No impacted or waste-containing soil was identified at the Site and no excavation was warranted. The area of the release was undisturbed from its original condition matching surrounding topography. The release extent is depicted in Figure 1.

XTO Energy, Inc  
 Reclamation Report  
 PLU 15 TWR 104 and 903

As discussed in the approved *Closure Request* twenty-seven composite soil samples, CS01 through CS27, were collected on March 25, 2024, and are depicted in Figure 1. Photographic documentation was completed, and a photographic log is included in Appendix A. The confirmation soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbons (TPH)—gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Methods SM4500.

Laboratory analytical results for the confirmation soil samples, CS01 through CS27, confirmed all COC concentrations were in compliance with NMOCD requirements for the reclaimed area to be comprised of non-waste containing, earthen material with chloride concentrations less than 600 milligrams per kilogram (mg/kg) and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included in Appendix B.

Per NMAC 19.15.29.13 D, reclamation of areas no longer in use began. On August 29, 2024, the Site was seeded with BLM seed mix #2 for sandy sites at double the rate specified below in pounds of pure live seed (PLS) per acre to account for the application method.

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

The seed mix was applied via broadcast application to minimize disturbance to the existing vegetation. Photographic documentation of the seeding activities is presented in the photographic log in Appendix A.

**VEGETATION MONITORING**

The Site will be monitored for vegetation growth to ensure that reclamation activities were successful. Focus for this phase will be to prevent erosion and Site degradation, and to monitor for and treat invasive and noxious weed species.

- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the BLM seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by licensed contracted herbicide applicator or mechanically removed.

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

**RECLAMATION APPROVAL REQUEST**

Based on the reclamation activities completed to date, including the approved remediation *Closure Request*, which can be referenced in Appendix C, and the proposed revegetation and monitoring plan



XTO Energy, Inc  
Reclamation Report  
PLU 15 TWR 104 and 903

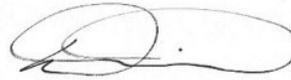
described above, XTO respectfully requests approval of this *Reclamation Report* and a status update to *Reclamation Report Approved, Pending submission of Re-Vegetation Report* for Incident nAPP2401645721.

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

Sincerely,  
**Ensolum, LLC**



Tracy Hillard  
Staff Engineer



Dan Moir, PG (Licensed in WY & TX)  
Senior Managing Geologist

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

Appendices:

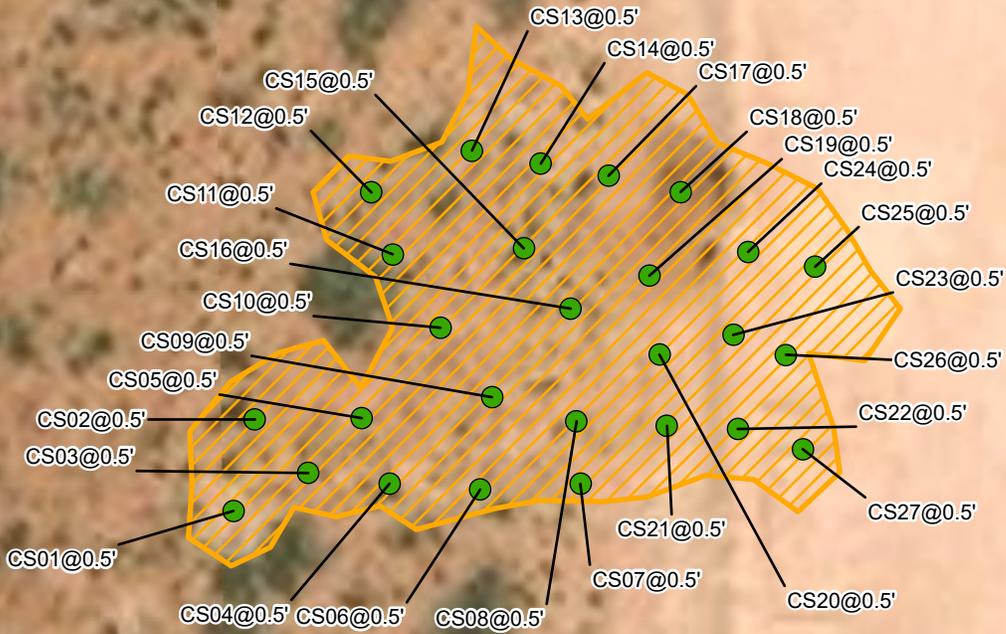
Figure 1	Reclamation Area
Table 1	Soil Sample Analytical Results
Appendix A	Photographic Log
Appendix B	Laboratory Analytical Report & Chain of Custody Documentation
Appendix C	July 8, 2024 <i>Closure Request</i>



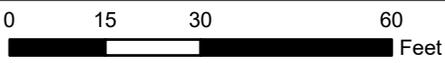
FIGURES

### Legend

- Confirmation Soil Samples Compliant with Closure Criteria
- Reclamation Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



## Reclamation Area

XTO Energy, Inc  
 PLU 15 TWR 104 and 903  
 Incident Number: nAPP2401645721  
 Unit N, Sec 15, T24S, R31E  
 Eddy County, New Mexico

# FIGURE

# 1



TABLES



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
PLU 15 TWR 104 and 903  
XTO ENERGY, INC  
EDDY COUNTY, NM**

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)
<b>NMOCD Table 1 Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Confirmation Soil Samples</b>										
CS01	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS02	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS03	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS04	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS05	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS06	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS07	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS08	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS09	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS10	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS11	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS12	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS13	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS14	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS15	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS16	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS17	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS18	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS19	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
PLU 15 TWR 104 and 903  
XTO ENERGY, INC  
EDDY COUNTY, NM**

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)
<b>NMOCD Table 1 Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
CS20	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS21	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS22	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
CS23	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
CS24	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS25	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS26	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
CS27	03/25/2024	0.5	<0.050	<0.300	<10.0	27.9	<10.0	27.9	27.9	224

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code



APPENDIX A  
Photographic Log

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**Photographic Log**  
XTO Energy, Inc.  
PLU 15 TWR 104 and 903  
nAPP2401645721



Photograph: 1                      Date: 8/29/2024  
Description: Reseeding activities.  
View: Northwest

Photograph: 2                      Date: 8/29/2024  
Description: Reseeding activities.  
View: Northeast



Photograph: 3                      Date: 8/29/2024  
Description: Reseeding activities.  
View: Northeast

Photograph: 4                      Date: 8/29/2024  
Description: Reseeding activities.  
View: Southeast



## APPENDIX B

### Laboratory Analytical Reports & Chain of Custody Documentation

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

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April 01, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 15 TWR 903-104

Enclosed are the results of analyses for samples received by the laboratory on 03/25/24 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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](http://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  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 01 0.5' (H241548-01)**

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	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	96.0	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 02 0.5' (H241548-02)**

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	03/27/2024	ND	1.99	99.4	2.00	8.74		
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	144	16.0	03/27/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53		
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12		
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 03 0.5' (H241548-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	80.0	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 131 % 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  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 04 0.5' (H241548-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	96.0	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 05 0.5' (H241548-05)**

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	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	144	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 06 0.5' (H241548-06)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	1.99	99.4	2.00	8.74		
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	160	16.0	03/27/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53		
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12		
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND						

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 07 0.5' (H241548-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 08 0.5' (H241548-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	112	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 09 0.5' (H241548-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	108	2.00	6.53		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	96.0	16.0	03/27/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53		
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12		
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND						

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 10 0.5' (H241548-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	128	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 11 0.5' (H241548-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 12 0.5' (H241548-12)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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	03/27/2024	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	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 13 0.5' (H241548-13)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/27/2024	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	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 14 0.5' (H241548-14)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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	160	16.0	03/27/2024	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	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 15 0.5' (H241548-15)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 16 0.5' (H241548-16)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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	144	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 17 0.5' (H241548-17)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	128	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 18 0.5' (H241548-18)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 19 0.5' (H241548-19)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 20 0.5' (H241548-20)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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	240	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 21 0.5' (H241548-21)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	256	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 22 0.5' (H241548-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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	272	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 23 0.5' (H241548-23)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	304	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 24 0.5' (H241548-24)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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	80.0	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 25 0.5' (H241548-25)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 26 0.5' (H241548-26)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	576	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 27 0.5' (H241548-27)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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
<b>Chloride</b>	<b>224</b>	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
<b>DRO &gt;C10-C28*</b>	<b>27.9</b>	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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**Notes and Definitions**

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: Ensolum, LLC **BILL TO** ANALYSIS REQUEST

Project Manager: Ben Bellini P.O. #: Company: XTO Energy

Address: 3122 National Parks Hwy State: NM Zip: 88220 Attn: Amy Ruth

City: Carlsbad State: NM Zip: 88220 Address: 3104 E. Greene St.

Phone #: 989-854-0852 Fax #: Project Owner: City: Carlsbad

Project #: 03C1558322 Project Location: 32.2112 -103.7009 State: NM Zip: 88220

Project Name: PLU15 TWR 903-104 Phone #: Fax #:

Sampler Name: M. O'Dell

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	PRESERV.		DATE	TIME	ANALYSIS REQUEST		
			ICE / COOL	OTHER			Chlorides	TPH	BTEX
H241548	CS11	0.5'	X		3/25/24	10:40	X	X	X
	CS12	0.5'							
	CS13	0.5'							
	CS14	0.5'							
	CS15	0.5'							
	CS16	0.5'							
	CS17	0.5'							
	CS18	0.5'							
	CS19	0.5'							
	CS20	0.5'							

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Relinquished By: [Signature] Date: 3/25/24 Time: 11:30  
Received By: [Signature] Date: 3/25/24 Time: 11:30

Delivered By: (Circle One) Observed Temp. °C: 49  
Sampler - UPS - Bus - Other: Corrected Temp. °C: [Blank]

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

Turnaround Time: Standard [X] Rush [ ]  
Thermometer ID: [Blank] Correction Factor: [Blank]

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



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

3 of 3

**ANALYSIS REQUEST**

**BILL TO**

Company Name: <b>Ensolium, LLC</b>		P.O. #:	
Project Manager: <b>Ben Bellill</b>		Company: <b>XTO Energy</b>	
Address: <b>3122 National Parks Hwy</b>		Attn: <b>Amy Ruth</b>	
City: <b>Carlsbad</b>		Address: <b>3104 E. Green St</b>	
State: <b>NM Zip: 88220</b>		City: <b>Carlsbad</b>	
Phone #: <b>989-854-0852</b> Fax #: <b>989-854-0852</b>		State: <b>NM Zip: 88220</b>	
Project #: <b>03C1558322</b> Project Owner:		Phone #:	
Project Name: <b>PLU 15 TWR 903-104</b>		Fax #:	
Project Location: <b>32.2112, -103.7109</b>			
Sampler Name: <b>M. O'Dell</b>			

Lab I.D.	Sample I.D.	Sample Depth (feet)	FOR LAB USE ONLY		DATE	TIME	ANALYSIS REQUEST		
			(G)RAB OR (C)OMP.	# CONTAINERS			GROUNDWATER	WASTEWATER	SOIL
H241548	CS21	0.5'	C	1	3/25/24	11:40	X	Chloride	X
	CS22	0.5'				11:45	X	TPH	X
	CS23	0.5'				11:50	X	BTEX	X
	CS24	0.5'				12:00			
	CS25	0.5'				12:05			
	CS26	0.5'				12:10			
	CS27	0.5'							

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

Relinquished By: <i>[Signature]</i>	Date: <b>3/25/24</b>	Time: <b>14:30</b>	Received By: <i>[Signature]</i>	Date: <b>3/25/24</b>	Time: <b>14:30</b>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: <b>4.9</b>	Corrected Temp. °C:	Sample Condition Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <i>[Signature]</i>	Thermometer ID: <b>#110</b>

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



Appendix C  
July 8, 2024 *Closure Request*



July 8, 2024

**New Mexico Oil Conservation Division**

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

**Re: Closure Request  
PLU 15 TWR 104 and 903  
Incident Number nAPP2401645721  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document assessment and soil sampling activities performed at the PLU 15 TWR 104 and 903 (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from an illegal release of produced water with added friction reducer (FR) at the Site. Based on field observations, and laboratory analytical results from the soil sampling events, XTO is requesting no further action for the remediation of Incident Number nAPP2401645721.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit N, Section 15, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.2112°, -103.76903°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 11, 2024, approximately 33 barrels (bbls) of produced water with FR was illegally released at the Site. No fluid was recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on January 12, 2024, and submitted an Initial C-141 Application (C-141) on January 16, 2024. The release was assigned Incident Number nAPP2401645721.

Produced water is recycled through filtering and separation, then mixed in a blender with friction reducer and used as hydraulic fracturing fluid during ht ewell completion process. The safety data sheet (SDS) for friction reducer is provided in Appendix A.

**SITE CHARACTERIZATION AND CLOSURE CRITERIA**

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of depth to groundwater. On December 20, 2020, a soil boring (C-4508) was drilled approximately 0.18 miles to the east of the Site. The soil boring was drilled to a depth of 110 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater

XTO Energy Inc.  
Closure Request  
PLU 15 TWR 104 and 903



was encountered during drilling activities. The borehole was left open for over 72 hours to allow for the potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed groundwater was greater than 110 feet bgs. There are no hydrological features near the Site that would indicate shallow groundwater. The referenced well records are included in Appendix B.

The closest continuously flowing or significant water course to the Site is a freshwater emergent wetland, located approximately 5,000 feet southeast 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 TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

## ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On March 6, 2024, site assessment activities were conducted at the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Eight assessment soil samples (SS01 through SS08) were collected within and around the release extent from a depth of 0.5 feet bgs to assess for the presence or absence of impacted soil. The assessment soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. The extent of the release was approximately 5,300 square feet. Photographic documentation was conducted during the Site visit and a Photographic Log is included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COC): 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 EPA Method SM4500.

Laboratory analytical results for assessment soil samples SS01 through SS08, collected within and around the release extent, indicated that all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Based on laboratory analytical results, the lateral extent of the

XTO Energy Inc.  
Closure Request  
PLU 15 TWR 104 and 903



release was defined. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

### CONFIRMATION SOIL SAMPLING ACTIVITIES

On March 25, 2024, Ensolum personnel returned to the site to collect twenty-seven 5-point composite soil samples representing no more than 200 square feet of the release extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples CS01 through CS27 were collected from release extent at 0.5 feet bgs. The confirmation soil samples were collected, handled, and analyzed following the same procedures as described above. The confirmation soil sample locations are presented on Figure 3.

Laboratory analytical results for the confirmation soil samples indicated that all COC concentrations were compliant with the Site Closure Criteria and the reclamation requirement. The laboratory analytical results confirm that no impacted soil was identified as a result of the illegal dumping of produced water with FR. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

### CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the January 11, 2024 illegal release of produced water with FR. Laboratory analytical results for soil samples collected within and around the release extent indicated that all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Based on laboratory analytical results, no further remediation is required at this time.

No impacted soil was identified at this Site. Depth to groundwater is estimated to be greater than 100 feet bgs, and soil sample laboratory analytical results compliant with the Closure Criteria and reclamation requirement, and no sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number nAPP2401645721.

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

Sincerely,  
**Ensolum, LLC**

Handwritten signature of Meredith Roberts in black ink.

Meredith Roberts  
Staff Geologist

Handwritten signature of Tacoma Morrissey in black ink.

Tacoma Morrissey  
Associate Principal

cc: Amy Ruth, XTO  
Amanda Garcia, XTO  
Bureau of Land Management

XTO Energy Inc.  
Closure Request  
PLU 15 TWR 104 and 903



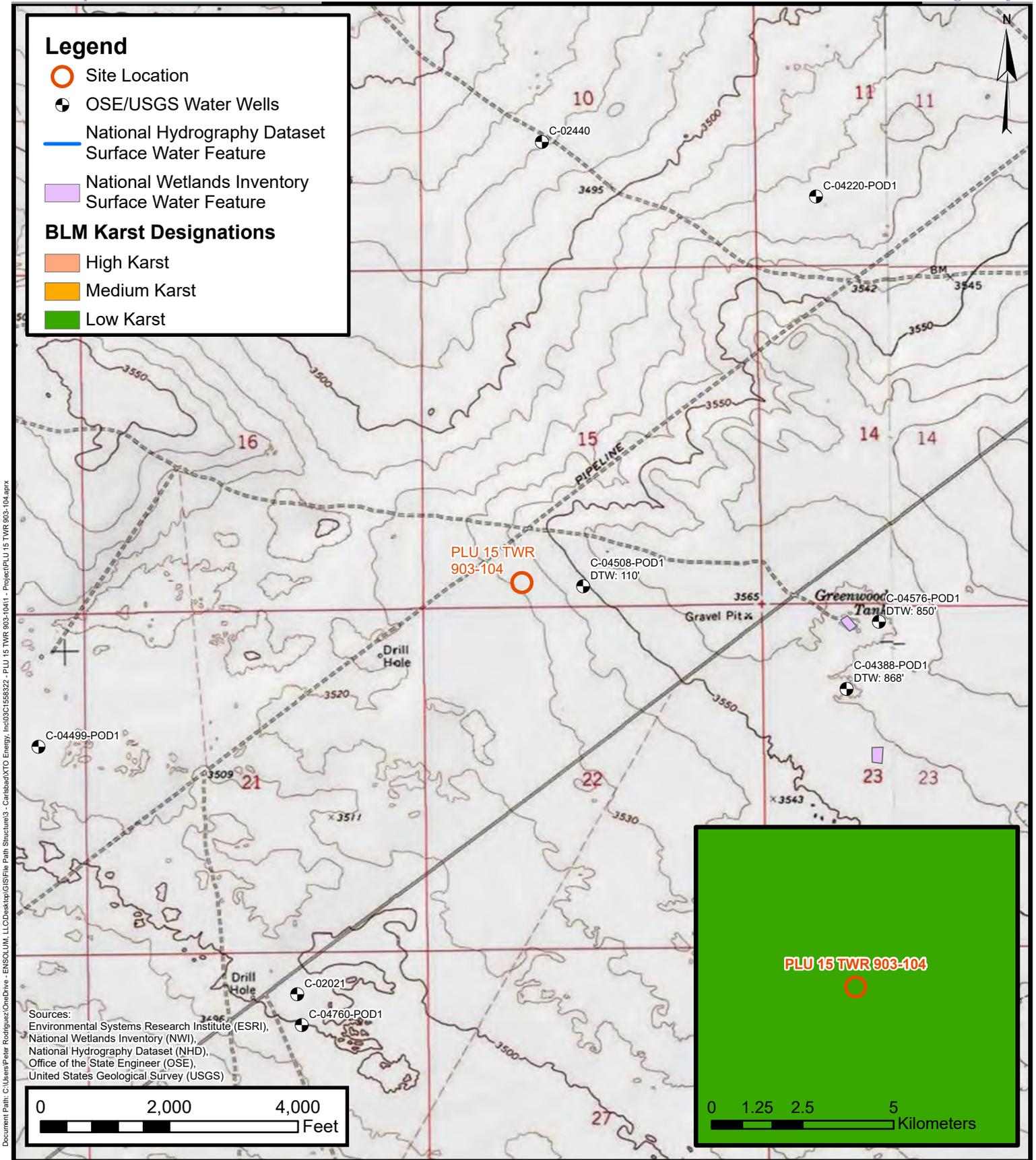
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Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Friction Reducer SDS
Appendix B	Referenced Well Record
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES



Document Path: C:\Users\Patric Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\Map\_Paths\Structura3 - Cambada\XTO Energy, Inc\031559322 - PLU 15 TWR 903-1041 - Project\PLU 15 TWR 903-104.aprx



**Site Receptor Map**

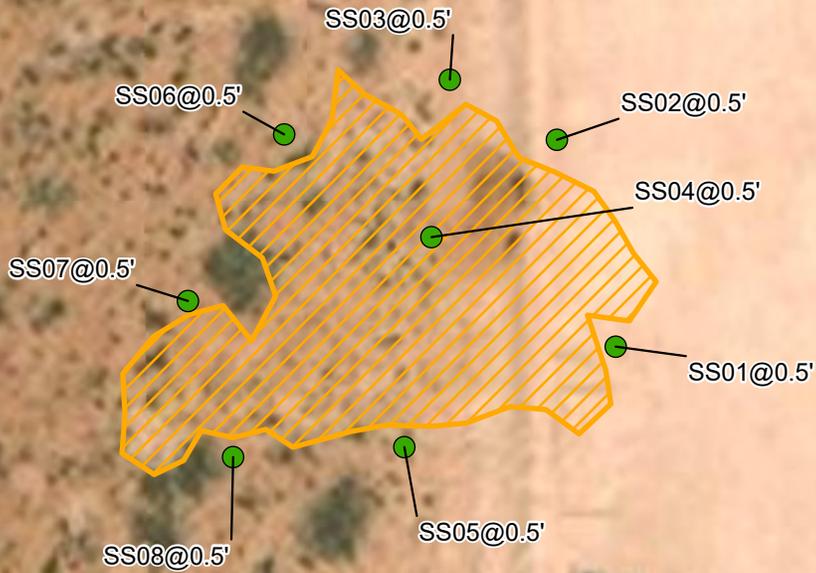
XTO Energy, Inc  
 PLU 15 TWR 104 and 903  
 Incident Number: nAPP2401645721  
 Unit N, Sec 15, T 24S, R 31E  
 Eddy County, New Mexico

**FIGURE**

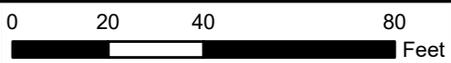
**1**

### Legend

-  Delineation Soil Samples Compliant with Closure Criteria
-  Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



## Assessment Soil Sample Locations

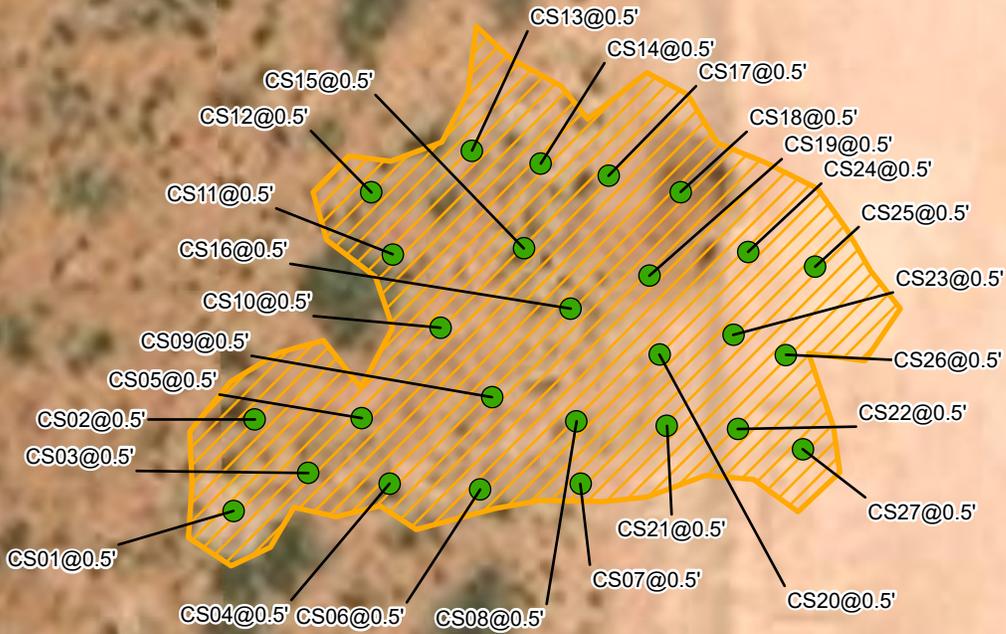
XTO Energy, Inc  
 PLU 15 TWR 104 and 903  
 Incident Number: nAPP2401645721  
 Unit N, Sec 15, T24S, R31E  
 Eddy County, New Mexico

### FIGURE

# 2

### Legend

- Confirmation Soil Samples Compliant with Closure Criteria
- Release Extent



Notes:  
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

## Confirmation Soil Sample Locations

XTO Energy, Inc  
 PLU 15 TWR 104 and 903  
 Incident Number: nAPP2401645721  
 Unit N, Sec 15, T24S, R31E  
 Eddy County, New Mexico

### FIGURE

### 3





TABLES

**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
PLU 15 TWR 903 and 104  
XTO ENERGY, INC  
EDDY COUNTY, NM**

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)
<b>NMOCD Table 1 Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Assessment Soil Samples</b>										
SS01	03/06/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS02	03/06/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SS03	03/06/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS04	03/06/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS05	03/06/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS06	03/06/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS07	03/06/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS08	03/06/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
<b>Confirmation Soil Samples</b>										
CS01	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS02	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS03	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS04	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS05	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS06	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS07	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS08	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS09	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS10	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS11	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS12	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS13	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS14	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS15	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224

**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
PLU 15 TWR 903 and 104  
XTO ENERGY, INC  
EDDY COUNTY, NM**

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)
<b>NMOCOD Table 1 Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
CS16	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS17	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS18	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS19	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS20	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS21	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS22	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
CS23	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
CS24	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS25	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS26	03/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
CS27	03/25/2024	0.5	<0.050	<0.300	<10.0	27.9	<10.0	27.9	27.9	224

Notes:

- bgs: below ground surface
- mg/kg: milligrams per kilogram
- NMOCOD: New Mexico Oil Conservation Division
- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
- Concentrations in **bold** exceed the NMOCOD Table 1 Closure Criteria or reclamation requirement where applicable.
- GRO: Gasoline Range Organics
- DRO: Diesel Range Organics
- ORO: Oil Range Organics
- TPH: Total Petroleum Hydrocarbon
- NMAC: New Mexico Administrative Code



APPENDIX A

Friction Reducer SDS

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# SAFETY DATA SHEET

Issuing Date 01-Aug-2019

Revision Date 01-Aug-2019

Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** POLYglide Xcel-200

### Other means of identification

**Product Code(s)** 10497

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** No information available

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### Supplier Address

PfP Industries  
29738 Goynes Rd.  
Katy, TX 77493

#### Manufacturer Address

PfP Industries  
29738 Goynes Rd.  
Katy, TX 77493

### Emergency telephone number

**Company Phone Number** 281-371-2000

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 4
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### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### **Warning**

Combustible liquid

10497 - POLYglide Xcel-200

Revision Date 01-Aug-2019

<b>Appearance</b> Opaque	<b>Physical state</b> Liquid	<b>Odor</b> Mineral Oil
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**Precautionary Statements - Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

May be harmful in contact with skin  
Harmful to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Chemical name	CAS No	Weight-%	Trade secret
Petroleum distillates, hydrotreated light	64742-47-8	40 - 70	

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first aid measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.
<b>Self-protection of the first aider</b>	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8).

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

10497 - POLYglide Xcel-200

Revision Date 01-Aug-2019

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.
<b>Unsuitable extinguishing media</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Specific hazards arising from the chemical</b>	Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.
<b>Explosion data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material.
-----------------------------	--

### Environmental precautions

<b>Environmental precautions</b>	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.
----------------------------------	--

### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.
<b>Methods for cleaning up</b>	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>Advice on safe handling</b>	Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation.
--------------------------------	--

### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations.
---------------------------	--

10497 - POLYglide Xcel-200

Revision Date 01-Aug-2019

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state** Liquid  
**Appearance** Opaque  
**Color** Milky white to yellow  
**Odor** Mineral Oil  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	>= 67 °C / 153 °F	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	0.97 - 1.03	
Water solubility	Miscible in water	
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	≥150 mm <sup>2</sup> /s	
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	

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Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

**10. STABILITY AND REACTIVITY**

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available.
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Numerical measures of toxicity**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	5,005.00 mg/kg
ATEmix (dermal)	2,002.00 mg/kg
ATEmix (inhalation-dust/mist)	5.20 mg/l

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated light 64742-47-8	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
---------------------------	---------------------------

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<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates, hydrotreated light 64742-47-8	-	2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static	-	4720: 96 h Den-dronereides heteropoda mg/L LC50

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulation</b>	There is no data for this product.
<b>Other adverse effects</b>	No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

<b>DOT</b>	Not regulated. Product does not sustain combustion (49 CFR 173.120(b)(3))
------------	---

## 15. REGULATORY INFORMATION

### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Complies
<b>KECL</b>	Complies

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PICCS Complies  
AICS Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

**US State Regulations** This product does not contain any substances regulated by state right-to-know regulations

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

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Revision Date 01-Aug-2019

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<u>NFPA</u>	Health hazards 2	Flammability 2	Instability 0	Physical and chemical properties -
<u>HMIS</u>	Health hazards 2	Flammability 2	Physical hazards 0	Personal protection X

Issuing Date 01-Aug-2019

Revision Date 01-Aug-2019

Revision Note No information available.

Disclaimer

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**End of Safety Data Sheet**



## APPENDIX B

### Referenced Well Record and Log

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# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) <b>POD1 (BH-01)</b>		WELL TAG ID NO. <b>n/a</b>		OSE FILE NO(S). <b>C-4508</b>			
	WELL OWNER NAME(S) <b>XTO Energy (Kyle Littrell)</b>				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS <b>6401 Holiday Hill Dr.</b>				CITY <b>Midland</b>	STATE <b>TX</b>	ZIP <b>79707</b>	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32°	SECONDS 12' 46.69" N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
	LONGITUDE	-103°	45' 55.29" W					
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE <b>SW SE Sec. 15 T24S R31E</b>								
<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. <b>1249</b>		NAME OF LICENSED DRILLER <b>Jackie D. Atkins</b>			NAME OF WELL DRILLING COMPANY <b>Atkins Engineering Associates, Inc.</b>		
	DRILLING STARTED <b>12/29/2020</b>		DRILLING ENDED <b>12/29/2020</b>		DEPTH OF COMPLETED WELL (FT) <b>temporary well material</b>	BORE HOLE DEPTH (FT) <b>110</b>	DEPTH WATER FIRST ENCOUNTERED (FT) <b>n/a</b>	
	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) <b>n/a</b>		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: <b>Hollow Stem Auger</b>							
	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	-	-	-	-
<b>3. ANNULAR MATERIAL</b>	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.	<b>C-4508</b>	POD NO.	<b>1</b>	TRN NO.	<b>1084651</b>
LOCATION	<b>Exp1 24S.31E.15.344</b>	WELL TAG ID NO.	<b>---</b>	PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	14	14	SAND, medium-fine grain, poorly graded, some claiche, light-brown-tan, dry	Y ✓ N	
	14	15	1	SAND, fine grain, poorly graded, some claiche, light-brown-tan, dry	Y ✓ N	
	15	25	5	CALICHE, moderately consolidated, silty, some gravel, off-white-tan, dry	Y ✓ N	
	25	46	21	SILTSTONE, mod. consolidated, some sand, red-brown, dry	Y ✓ N	
	46	64	18	CLAYSTONE, mod. consolidated, cohesive, few sand, red-brown, dry	Y ✓ N	
	64	72	8	SANDSTONE, high consolidated, medium-grain, well graded, white/light brown	Y ✓ N	
	72	90	18	CLAYSTONE, high consolidated, cohesive, medium plasticity, few sand, red-b	Y ✓ N	
	90	101	11	SANDSTONE, high consolidated, fine grain, few silt, white/offwhite	Y ✓ N	
	101	108	7	CLAYSTONE, high consolidated, cohesive, med.-low plasticity, few sand, red-b	Y ✓ N	
	108	111	3	SANDSTONE, high consolidated, fine grain, few silt, white/offwhite, dry	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 Jackie D. Atkins			02/11/2021		
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME			DATE		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO. C-4504	POD NO. 1	TRN NO. 084651	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2

OSE DII FEB 12 2021 PM 3:10



APPENDIX C  
Photographic Log

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**Photographic Log**  
XTO Energy, Inc.  
PLU 15 TWR 104 and 903  
Incident Number: nAPP2401645721



Photograph 1

Date: March 6, 2024

Description: South view of site assessment activities.



Photograph 2

Date: March 25, 2024

Description: West view of sampling activities.



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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

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March 12, 2024

TACOMA MORRISSEY  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: PLU 15 TWR 903-104

Enclosed are the results of analyses for samples received by the laboratory on 03/07/24 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 TACOMA MORRISSEY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/06/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

**Sample ID: SS 01 0.5' (H241158-01)**

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	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	80.0	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2024	ND	220	110	200	3.30	
DRO >C10-C28*	<10.0	10.0	03/09/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	<10.0	10.0	03/09/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 TACOMA MORRISSEY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/06/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

**Sample ID: SS 02 0.5' (H241158-02)**

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	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	304	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2024	ND	220	110	200	3.30	
DRO >C10-C28*	<10.0	10.0	03/09/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	<10.0	10.0	03/09/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 TACOMA MORRISSEY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/06/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

**Sample ID: SS 03 0.5' (H241158-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	213	106	200	3.16	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	226	113	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 TACOMA MORRISSEY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/06/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

**Sample ID: SS 04 0.5' (H241158-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	213	106	200	3.16	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	226	113	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 TACOMA MORRISSEY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/06/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

**Sample ID: SS 05 0.5' (H241158-05)**

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	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	213	106	200	3.16	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	226	113	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 TACOMA MORRISSEY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/06/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

**Sample ID: SS 06 0.5' (H241158-06)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168		
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167		
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173		
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149		
Total BTEX	<0.300	0.300	03/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	213	106	200	3.16		
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	226	113	200	0.570		
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND						

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 TACOMA MORRISSEY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/06/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

**Sample ID: SS 07 0.5' (H241158-07)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168		
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167		
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173		
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149		
Total BTEX	<0.300	0.300	03/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	213	106	200	3.16		
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	226	113	200	0.570		
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND						

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 TACOMA MORRISSEY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/06/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

**Sample ID: SS 08 0.5' (H241158-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	213	106	200	3.16	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	226	113	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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: Tacoma Morrissey  
 Address: 601 N. Marland St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 337 257 8307 Fax #: \_\_\_\_\_  
 Project #: 03C1558322 Project Owner: XTO  
 Project Name: PLU 15 TUR 903-104  
 Project Location: \_\_\_\_\_  
 Sampler Name: Tracy Hillard  
 P.O. #: \_\_\_\_\_  
 Company: XTO Energy  
 Attn: Amy Ruth  
 Address: 3104 E Greene St  
 City: Carlsbad  
 State: NM Zip: 88220  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX	Chloride
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H04158	SS01	0.5	G	1								3-6-24	0950			
	SS02	0.5										3-6-24	0953			
	SS03	0.5										3-6-24	0957			
	SS04	0.5										3-6-24	1000			
	SS05	0.5										3-6-24	1003			
	SS06	0.5										3-6-24	1005			
	SS07	0.5										3-6-24	1009			
	SS08	0.5										3-6-24	1013			

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Relinquished By: Roy Hillard  
 Date: \_\_\_\_\_  
 Received By: S. Rodriguez  
 Date: \_\_\_\_\_  
 Verbal Result:  Yes  No  Add'l Phone #:  
 All Results are emailed. Please provide Email address: tmorrissey@ensolum.com  
 REMARKS: APP 2401645721

Delivered By: (Circle One) Observed Temp. 0.6i Sample Condition:  Cool  Intact  Yes  No  
 Corrected Temp. 0.6i Checked By: TR  
 Sampler - UPS - Bus - Other: \_\_\_\_\_  
 Turnaround Time: \_\_\_\_\_ Standard  Bacteria (only) Sample Condition:  Cool  Intact  Yes  No  
 Thermometer ID: #140 Corrosion Factor: 0.5C Corrected Temp. 0.6i

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



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

---

April 01, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 15 TWR 903-104

Enclosed are the results of analyses for samples received by the laboratory on 03/25/24 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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](http://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  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 01 0.5' (H241548-01)**

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	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	96.0	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 02 0.5' (H241548-02)**

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	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	144	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 03 0.5' (H241548-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	80.0	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 04 0.5' (H241548-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	96.0	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 05 0.5' (H241548-05)**

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	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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
<b>Chloride</b>	<b>144</b>	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 06 0.5' (H241548-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	160	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 07 0.5' (H241548-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 08 0.5' (H241548-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.99	99.4	2.00	8.74	
Toluene*	<0.050	0.050	03/27/2024	ND	2.13	106	2.00	3.40	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	2.35	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.86	114	6.00	1.59	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	112	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 09 0.5' (H241548-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	96.0	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 10 0.5' (H241548-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	128	16.0	03/27/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 11 0.5' (H241548-11)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	108	2.00	6.53		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04		
Total BTEX	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/27/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	232	116	200	4.53		
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12		
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND						

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 12 0.5' (H241548-12)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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
<b>Chloride</b>	<b>48.0</b>	16.0	03/27/2024	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	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 13 0.5' (H241548-13)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/27/2024	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	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 14 0.5' (H241548-14)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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	160	16.0	03/27/2024	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	03/27/2024	ND	232	116	200	4.53	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 15 0.5' (H241548-15)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 16 0.5' (H241548-16)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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	144	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 17 0.5' (H241548-17)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	128	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 18 0.5' (H241548-18)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 19 0.5' (H241548-19)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 20 0.5' (H241548-20)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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	240	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 21 0.5' (H241548-21)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	256	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 22 0.5' (H241548-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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	272	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 23 0.5' (H241548-23)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	304	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 24 0.5' (H241548-24)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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	80.0	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 25 0.5' (H241548-25)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	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	240	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 26 0.5' (H241548-26)**

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	03/27/2024	ND	2.17	108	2.00	6.53	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	576	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/25/2024	Sampling Date:	03/25/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	PLU 15 TWR 903-104	Sampling Condition:	Cool & Intact
Project Number:	03C1558322	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.2112,-103.769 )		

**Sample ID: CS - 27 0.5' (H241548-27)**

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	03/27/2024	ND	2.17	108	2.00	6.53		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	8.08		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	8.04		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	
<b>Chloride</b>	<b>224</b>	16.0	03/27/2024	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	03/26/2024	ND	209	105	200	0.265		
<b>DRO &gt;C10-C28*</b>	<b>27.9</b>	10.0	03/26/2024	ND	204	102	200	0.439		
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND						

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 3

ANALYSIS REQUEST

BILL TO

Company Name: <b>Ensolium, LLC</b>	P.O. #:
Project Manager: <b>Ben Belli</b>	Company: <b>XTO Energy</b>
Address: <b>3122 National Parks Hwy</b>	Attn: <b>Amy Ruth</b>
City: <b>Carlsbad</b>	Address: <b>3104 E. Greene St.</b>
State: <b>NM</b> Zip: <b>88220</b>	City: <b>Carlsbad</b>
Phone #: <b>989-854-0852</b> Fax #:	State: <b>NM</b> Zip: <b>88220</b>
Project #: <b>PLU 15 TWR 403 10H</b> Project Owner:	Phone #:
Project Name: <b>03C1558322</b>	Fax #:
Project Location: <b>32.2112, -103.769</b>	
Sampler Name: <b>M. O'Dell</b>	

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H341548	CS01	0.5'	(G)	1			X				3/25/24	01:15	X Chlorides
	CS02	0.5'										01:20	X TPH
	CS03	0.5'										01:25	X BTEX
	CS04	0.5'										01:30	
	CS05	0.5'										01:35	
	CS06	0.5'										10:00	
	CS07	0.5'										12:15	
	CS08	0.5'										10:10	
	CS09	0.5'										10:15	
	CS10	0.5'										10:20	

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Relinquished By: <i>[Signature]</i>	Date: <b>3/25/24</b>	Time: <b>4:30</b>	Received By: <i>[Signature]</i>	Date: <b>3/25/24</b>	Time: <b>4:30</b>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: <b>419</b>	Corrected Temp. °C:	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <i>[Signature]</i>	Thermometer ID #113 #446 Correction Factor: <i>[Signature]</i>
REMARKS: Incident # NAPP2401045721 Cost center: 1005 121001 & 1005 281001 API: 30-015-45453			Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:		
All Results are emailed. Please provide Email address: Bbelli@ensolium.com dbelli@ensolium.com melli@ensolium.com			Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No		



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

ANALYSIS REQUEST

BILL TO

Company Name: Ensolum, LLC  
 Project Manager: Ben Bellini  
 Address: 3122 National Parks Hwy  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: 989-854-0852 Fax #:   
 Project #: 03C1558322 Project Owner:   
 Project Name: PLU15 TWR 903-104  
 Project Location: 32.2112, -103.709  
 Sampler Name: 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:   
 DATE: 3/25/24  
 SAMPLING:   
 TIME: 10:40

Lab I.D.	Sample I.D.	Sample Depth (feet)	FOR LAB USE ONLY		DATE	TIME	ANALYSIS REQUEST		
			(G)RAB OR (C)OMP.	# CONTAINERS			Chlorides	TPH	BTEX
H241548	CS11	0.5'	C	1	3/25/24	10:40	X	X	X
	CS12	0.5'							
	CS13	0.5'							
	CS14	0.5'							
	CS15	0.5'							
	CS16	0.5'							
	CS17	0.5'							
	CS18	0.5'							
	CS19	0.5'							
	CS20	0.5'							

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Relinquished By: *[Signature]* Date: 3/25/24  
 Received By: *[Signature]* Date: 3/25/24  
 Time: 11:30  
 Verbal Result:  Yes  No Add'l Phone #:   
 All Results are emailed. Please provide Email address:   
 Bellen@ensolum.com, mbell@ensolum.com,   
 REMARKS: Incident # APP2401045721  
 Cost center: LW5121001 & LW5201001  
 API: 30-015-45453

Delivered By: (Circle One) Observed Temp. °C 49  
 Sampler - UPS - Bus - Other: Corrected Temp. °C  
 Sample Condition: Cool Intact  Yes  No  
 Checked By: (Initials) *[Signature]*  
 Turnaround Time: Standard  Rush   
 Bacteria (only) Sample Condition: Cool Intact  Yes  No  
 Corrected Temp. °C  
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

ANALYSIS REQUEST

BILL TO

Company Name: <b>Ensolium, LLC</b>	P.O. #:
Project Manager: <b>Ben Bellill</b>	Company: <b>XTO Energy</b>
Address: <b>3122 National Parks Hwy</b>	Attn: <b>Amy Ruth</b>
City: <b>Carlsbad</b>	Address: <b>3104 E. Green St</b>
State: <b>NM</b> Zip: <b>88220</b>	City: <b>Carlsbad</b>
Phone #: <b>989-854-0852</b> Fax #: <b>989-854-0852</b>	State: <b>NM</b> Zip: <b>88220</b>
Project #: <b>03C1558322</b> Project Owner:	Phone #:
Project Name: <b>PLU 15 TWR 903-104</b>	Fax #:
Project Location: <b>32.2112, -103.7109</b>	
Sampler Name: <b>M. O'Dell</b>	

Lab I.D.	Sample I.D.	Sample Depth (feet)	FOR LAB USE ONLY		DATE	TIME	ANALYSIS REQUEST
			(G)RAB OR (C)OMP.	# CONTAINERS			
<b>H241548</b>	<b>CS21</b>	<b>0.5'</b>	<b>C</b>	<b>1</b>	<b>3/25/24</b>	<b>11:40</b>	<b>Chloride</b>
	<b>CS22</b>	<b>0.5'</b>				<b>11:45</b>	<b>TPH</b>
	<b>CS23</b>	<b>0.5'</b>				<b>11:50</b>	<b>BTEX</b>
	<b>CS24</b>	<b>0.5'</b>				<b>12:00</b>	
	<b>CS25</b>	<b>0.5'</b>				<b>12:05</b>	
	<b>CS26</b>	<b>0.5'</b>				<b>12:10</b>	
	<b>CS27</b>	<b>0.5'</b>					

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Relinquished By: <i>[Signature]</i>	Date: <b>3/25/24</b>	Time: <b>14:30</b>	Received By: <i>[Signature]</i>	Date: <b>3/25/24</b>	Time: <b>14:30</b>
Relinquished By: <i>[Signature]</i>	Date: <b>3/25/24</b>	Time: <b>14:30</b>	Received By: <i>[Signature]</i>	Date: <b>3/25/24</b>	Time: <b>14:30</b>

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	<b>4.9</b>	<input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	<i>[Signature]</i>
Corrected Temp. °C		<input type="checkbox"/> Yes <input type="checkbox"/> No	

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QUESTIONS

Action 390483

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 390483
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2401645721
Incident Name	NAPP2401645721 PLU 15 TWR 104 AND 903 @ 0
Incident Type	Other
Incident Status	Reclamation Report Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	PLU 15 TWR 104 and 903
Date Release Discovered	01/11/2024
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

Incident Type	Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
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	Cause: Vandalism   Truck   Other (Specify)   Released: 33 BBL   Recovered: 0 BBL   Lost: 33 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Illegal dump of produced water with FR added

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QUESTIONS, Page 2

Action 390483

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 390483
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<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: Melanie Collins Title: Regulatory Analyst Email: Melanie.Collins@exxonmobil.com Date: 01/16/2024
--	---

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**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 390483
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (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 ½ and 1 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 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)	576
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	27.9
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	03/06/2024
On what date will (or did) the final sampling or liner inspection occur	03/25/2024
On what date will (or was) the remediation complete(d)	03/25/2024
What is the estimated surface area (in square feet) that will be reclaimed	5300
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	5300
What is the estimated volume (in cubic yards) that will be remediated	0

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

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

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QUESTIONS, Page 4

Action 390483

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 390483
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	No impacted soil identified; no soil removed.

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: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 07/08/2024
--	--

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.

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QUESTIONS, Page 5

Action 390483

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 390483
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Deferral Requests Only**

*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

Requesting a deferral of the remediation closure due date with the approval of this submission	No
--	----

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QUESTIONS, Page 6

Action 390483

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 390483
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>325242</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>03/25/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>30</b>
What was the sampling surface area in square feet	<b>6000</b>

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>5300</b>
What was the total volume (cubic yards) remediated	<b>0</b>
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>5300</b>
What was the total volume (in cubic yards) reclaimed	<b>0</b>
Summarize any additional remediation activities not included by answers (above)	No impacted soil was identified at this Site. Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the January 11, 2024 illegal release of produced water with FR. Laboratory analytical results for soil samples collected within and around the release extent indicated that all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Based on laboratory analytical results, no further remediation is required at this time.

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 07/08/2024
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**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
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**District II**  
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**District III**  
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**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 7

Action 390483

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 390483
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Reclamation Report**

*Only answer the questions in this group if all reclamation steps have been completed.*

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	5300
What was the total volume of replacement material (in cubic yards) for this site	0

*Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.*

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	10/29/2024

Summarize any additional reclamation activities not included by answers (above)	No impacted soil was identified at this Site. Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the January 11, 2024 illegal release of produced water with FR. Laboratory analytical results for soil samples collected within and around the release extent indicated that all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Based on laboratory analytical results, no further remediation is required at this time. The release area will be re-seeded and monitored for vegetation growth.
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*The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Kailee Smith Title: Regulatory Analyst Email: kailee.smith@exxonmobil.com Date: 10/07/2024
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**Santa Fe, NM 87505**

QUESTIONS, Page 8

Action 390483

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 390483
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

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

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CONDITIONS

Action 390483

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 390483
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your Reclamation Report for Incident #NAPP2401645721 PLU 15 TWR 104 AND 903, thank you. This Reclamation Report is approved.	11/7/2024