



November 14, 2024

**New Mexico Oil Conservation Division**

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

**Re: Remediation Work Plan  
Perla Verde 31 State 001H  
Incident Number nAPP2412749555  
API 30-025-42063  
Lease Number L023780001  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document the site assessment activities completed to date and propose a work plan to address impacted soil identified at the Perla Verde 31 State 001H (Site). The purpose of the assessment activities was to determine the presence or absence of impacted soil resulting from a crude oil and produced water release at the Site. The following *Work Plan* proposes to remove impacted soil identified within the release extent.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit M, Section 31, Township 19 South, Range 35 East, in Lea County, New Mexico (32.6101°, -103.5042°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (SLO). The Site is associated with the Perla Verde 31 State Com #001H (API: 30-025-42063) oil well on SLO lease number L023780001.

On May 2, 2024, an equipment failure resulted in the release of 3 barrels (bbls) of crude oil and 23 bbls of produced water onto the pad surface. XTO immediately dispatched a vacuum truck and 1 bbl of crude oil and 4 bbls of produced water were recovered. XTO submitted a Notification of Release (NOR) on May 6, 2024 and subsequently an Initial C-141 Application (C-141) on May 7, 2024. The release was assigned Incident Number nAPP2412749555.

On August 16, 2024, XTO submitted the following extension request to the NMOCD that was approved the same day:

*XTO is requesting an extension for a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the attached locations/incident numbers listed in this message. We understand that the releases all occurred between February and March of this year and attendant documentation is overdue. Kindly be aware that these occurred during a high turnover period of personnel in our department, transitioning staff, and a large company-wide data migration that collectively disturbed our incident tracking efforts for remediation. In our efforts to correct the*

XTO Energy, Inc.  
Remediation Work Plan  
Perla Verde 31 State 001H

*issue, XTO is proactively assigning each of these incidents to be successfully addressed by contractors for closure in accordance with 19.15.29.12 NMAC.*

## **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 less than 100 feet below ground surface (bgs) but greater than 50 feet bgs based on the nearest groundwater well data. On May 3, 1996, a United States Geological Survey (USGS) permitted livestock watering well (USGS 323536103301101) was advanced to a depth of 70 feet bgs. The location of the well is approximately 0.88 miles south of the release and is depicted on Figure 1. The USGS recorded the depth to water at 56.39 feet bgs. The Well Record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an seasonal dry wash, located approximately 5,100 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the results of the Site Characterization, and the New Mexico Oil Conservation Division (NMOCD) preference for data for depth to groundwater be within ½ mile and within the last 25 years, 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): 100 mg/kg
- Chloride: 600 mg/kg

## **CULTURAL PROPERTIES PROTECTION**

Since the incident occurred on pad, the Site is exempt from the Cultural Properties Protection (CPP) Rule. As such, no additional cultural resource surveys were completed in connection with this release.

## **BIOLOGICAL COMPLIANCE AND REPORTING**

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and/or sensitive soils.

- The Site is located within an area of possible Lesser Prairie Chickens and Dunes Sage Brush Lizards habitat.
  - From March 1<sup>st</sup> through June 15<sup>th</sup>, no remediation activities will occur between the hours of 3:00 am to 9:00 am to protect any Lesser Prairie Chickens within the area.

XTO Energy, Inc.  
Remediation Work Plan  
Perla Verde 31 State 001H

- Due to the release occurring on pad surface, no suitable habitat was identified for the Dunes Sage Brush Lizards at the Site. Remediation efforts are not expected to occur outside of the pad boundaries.
- No environmentally sensitive receptors were located near the Site as mentioned in the Site Characterization.
- The soil type is classified as Pyote and Maljamar fine sands according to the Web Soil Survey. Pyote and Maljamar fine sands are considered a sensitive soil by the SLO definition. The release occurred on the pad surface limiting contact with potential sensitive soils and was found to have occurred only on the pad caliche.

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On August 29, 2024 Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the C-141, internal reports, and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

On November 12, 2024, Ensolum returned to the Site to oversee delineation activities. Delineation potholes PH01 and PH02 were advanced via backhoe to assess the vertical extent of the release to a maximum depth of 4 feet bgs. Delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 4 feet bgs. The 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 delineation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2. Field screening results and observations were logged on lithologic/soil sampling logs, which are 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 (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil sample for PH01 and PH02, collected at 0.5 feet bgs, indicated chloride concentrations exceeded Closure Criteria. All terminal soil samples of the delineation potholes were in compliance with the Closure Criteria, successfully defining the vertical extent of the release. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

## PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated chloride concentrations exist across an approximate 4,205 square foot area and extends to depths ranging from 0.5 feet to 4 feet bgs. XTO proposes to complete the following remediation activities:

XTO Energy, Inc.  
Remediation Work Plan  
Perla Verde 31 State 001H

- Excavation of impacted soil to a depth of 2 feet to 4 feet bgs. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with Closure Criteria.
- An estimated 470 cubic yards of impacted soil will be excavated and disposed of at the R360 facility in Hobbs, New Mexico
- The excavation will be backfilled with locally procured material and recontoured to match pre-existing conditions.

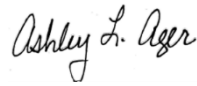
XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD.

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  
Project Engineer



Ashley Ager, PG, MS  
Program Director

cc: Colton Brown, XTO  
Kaylan Dirkx, XTO  
SLO

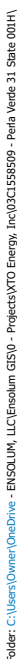
Appendices:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Proposed Excavation Extent
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES








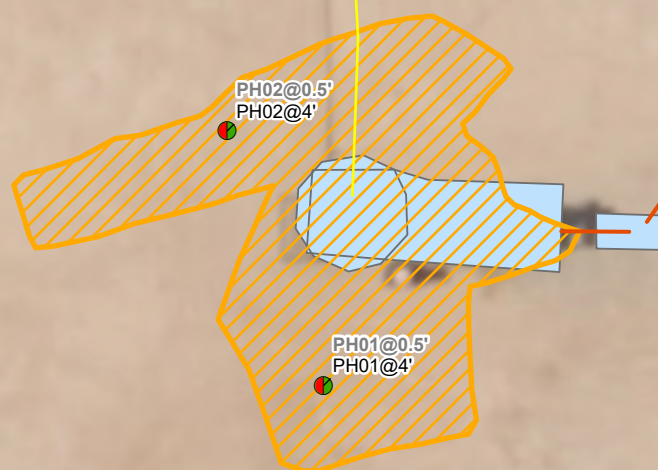


# FIGURE 1

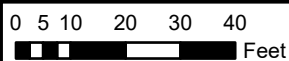


**Legend**

-  Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
-  Electric Utility Line
-  Oil and Gas Utility Line
-  Release Extent
-  Production Equipment

**Notes:**

Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.  
 Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

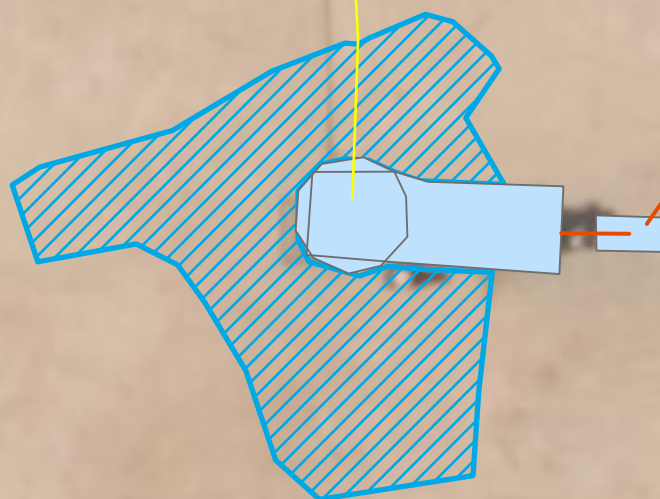
**Delineation Soil Sample Locations**

XTO Energy, Inc  
 Perla Verde 31 State 001H  
 Incident Number: nAPP2412749555  
 Unit M, Sec 31, T19S, R35E  
 Lea County, New Mexico

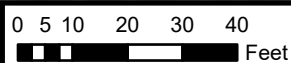
**FIGURE**  
**2**

### Legend

- Electric Utility Line
- Oil and Gas Utility Line
- Production Equipment
- Proposed Excavation Extent



Notes:  
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



## Proposed Excavation Extent

XTO Energy, Inc  
Perla Verde 31 State 001H  
Incident Number: nAPP2412749555  
Unit M, Sec 31, T19S, R35E  
Lea County, New Mexico

**FIGURE**  
**3**





TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Perla Verde 31 State 001H  
 XTO Energy, Inc  
 Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
PH01	11/12/2024	0.5	<0.050	<0.300	<10.0	12.9	<10.0	12.9	12.9	<b>4,400</b>
PH01A	11/12/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
PH02	11/12/2024	0.5	<0.050	<0.300	<10.0	70.7	10.3	70.7	81.0	<b>3,360</b>
PH02A	11/12/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



## APPENDIX A

### Referenced Well Records

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USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hideNews Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for New Mexico

Click to hide state-specific text

**i** Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 323536103301101

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 323536103301101 20S.35E.06.331332

Lea County, New Mexico  
Latitude 32°35'50", Longitude 103°30'17" NAD27  
Land-surface elevation 3,678.00 feet above NGVD29  
The depth of the well is 70 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1961-03-08			D 62610		3619.30	NGVD29	1	Z		
1961-03-08			D 62611		3620.85	NAVD88	1	Z		
1961-03-08			D 72019	58.70			1	Z		
1971-01-21			D 62610		3620.42	NGVD29	1	Z		
1971-01-21			D 62611		3621.97	NAVD88	1	Z		
1971-01-21			D 72019	57.58			1	Z		
1976-02-19			D 62610		3616.76	NGVD29	1	Z		
1976-02-19			D 62611		3618.31	NAVD88	1	Z		
1976-02-19			D 72019	61.24			1	Z		
1986-04-02			D 62610		3621.09	NGVD29	1	Z		
1986-04-02			D 62611		3622.64	NAVD88	1	Z		
1986-04-02			D 72019	56.91			1	Z		
1991-07-03			D 62610		3623.77	NGVD29	1	Z		
1991-07-03			D 62611		3625.32	NAVD88	1	Z		
1991-07-03			D 72019	54.23			1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1996-03-05			D	62610		3621.61	NGVD29	1	S	
1996-03-05			D	62611		3623.16	NAVD88	1	S	
1996-03-05			D	72019	56.39			1	S	

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)  
[Help](#)  
[Data Tips](#)  
[Explanation of terms](#)  
[Subscribe for system changes](#)

[Accessibility](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)  
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)  
**Title: Groundwater for New Mexico: Water Levels**  
**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**



Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2024-08-23 09:52:10 EDT  
0.32 0.22 nadww01



## APPENDIX B

### Photographic Log

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## Photographic Log

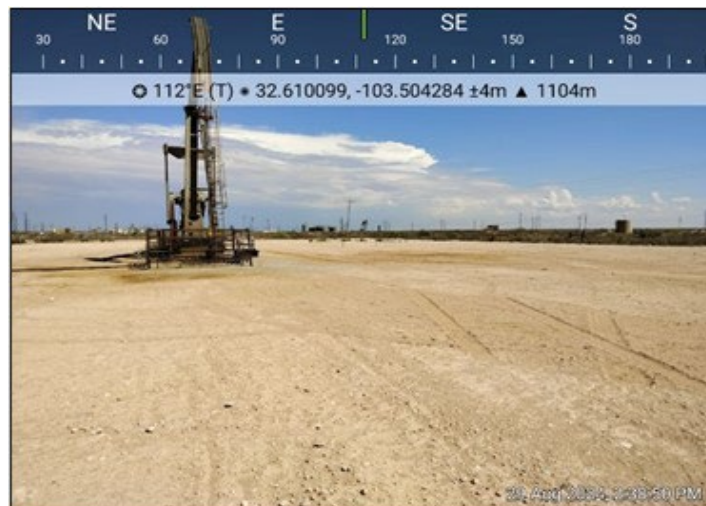
XTO Energy, Inc.  
Perla Verde 31 State 001H  
nAPP2412749555



Photograph 1

Date: May 2, 2024

Description: View of release foot print facing east.



Photograph 2

Date: August 29, 2024


Description: View of release foot print facing east.




## APPENDIX C

### Lithologic Soil Sampling Logs

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 <b>ENSOLUM</b>		Sample Name: PH01		Date: 11/12/2024				
		Site Name: Perla Verde 31 State 001H						
		Incident Number: NAPP2412749555						
		Job Number: 03C1558509						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.609952, -103.504099			Logged By: JB		Method: Backhoe			
			Hole Diameter: 24"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-2') CALICHE, beige, fine grained, poorly graded
D	6,356	0.0	N	PH01	0.5	1		
D	2,346	0.0	N		1	1		
D	889	0.1	N		2	2	SP	(2-4') SAND, gray brown, little clay, poorly graded
D	806	0.0	N		3	3		
D	425	0.1	N	PH01A	4	4		
						Total Depth @ 4 feet bgs		



 <b>ENSOLUM</b>		Sample Name: PH02		Date: 11/12/2024				
		Site Name: Perla Verde 31 State 001H						
		Incident Number: NAPP2412749555						
		Job Number: 03C1558509						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.610081, -103.504153			Logged By: JB		Method: Backhoe			
			Hole Diameter: 24"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-2') CALICHE, tan, fine grained, poorly graded
D	5,443	0.1	N	PH02	0.5			
D	963	0.1	N		1	1		
D	201	0.3	N	PH02A	2	2		
						Total Depth @ 2 feet bgs		



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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

November 13, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PERLA VERDE 31 STATE 001 H

Enclosed are the results of analyses for samples received by the laboratory on 11/12/24 12:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PERLA VERDE 31 STATE 001 H  
Project Number: 03C1558509  
Project Location: XTO 32.6101, -103.5042

Sampling Date: 11/12/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 01 0.5 (H246883-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.00	100	2.00	4.01	
Toluene*	<0.050	0.050	11/12/2024	ND	1.93	96.6	2.00	3.95	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	1.94	97.1	2.00	3.34	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.76	95.9	6.00	3.33	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	4400	16.0	11/13/2024	ND	416	104	400	12.2	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	184	92.2	200	1.78	
DRO >C10-C28*	12.9	10.0	11/12/2024	ND	186	93.1	200	9.57	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PERLA VERDE 31 STATE 001 H  
Project Number: 03C1558509  
Project Location: XTO 32.6101, -103.5042

Sampling Date: 11/12/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 01A 4 (H246883-02)**

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	11/12/2024	ND	2.00	100	2.00	4.01		
Toluene*	<0.050	0.050	11/12/2024	ND	1.93	96.6	2.00	3.95		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	1.94	97.1	2.00	3.34		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.76	95.9	6.00	3.33		
Total BTEX	<0.300	0.300	11/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	288	16.0	11/13/2024	ND	416	104	400	12.2		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	184	92.2	200	1.78	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	186	93.1	200	9.57	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PERLA VERDE 31 STATE 001 H  
Project Number: 03C1558509  
Project Location: XTO 32.6101, -103.5042

Sampling Date: 11/12/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 02 0.5 (H246883-03)**

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	11/12/2024	ND	2.00	100	2.00	4.01	
Toluene*	<0.050	0.050	11/12/2024	ND	1.93	96.6	2.00	3.95	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	1.94	97.1	2.00	3.34	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.76	95.9	6.00	3.33	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	3360	16.0	11/13/2024	ND	416	104	400	12.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	184	92.2	200	1.78	
DRO >C10-C28*	70.7	10.0	11/13/2024	ND	186	93.1	200	9.57	
EXT DRO >C28-C36	10.3	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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**Analytical Results For:**

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

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PERLA VERDE 31 STATE 001 H  
Project Number: 03C1558509  
Project Location: XTO 32.6101, -103.5042

Sampling Date: 11/12/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 02A 2 (H246883-04)**

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	11/12/2024	ND	2.00	100	2.00	4.01	
Toluene*	<0.050	0.050	11/12/2024	ND	1.93	96.6	2.00	3.95	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	1.94	97.1	2.00	3.34	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.76	95.9	6.00	3.33	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	160	16.0	11/13/2024	ND	416	104	400	12.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	184	92.2	200	1.78	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	186	93.1	200	9.57	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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---

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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Tracy Lillard

Address: 3122 Northern Parks Hwy

City: Midland-Carlsbad State: TX NM Zip: 88220

Phone #: 575 931 3906 Fax #:

Project #: 03C15555509 Project Owner: XTO

Project Name: Perla Verde 31 State 001H

Project Location: 32.6101, -103.5042

Sampler Name: Joshua Boxley

P.O. #:

Company: XTO Energy Inc

Attn: Elton Brown

Address: 3104 E Green St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC										P.O. #:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV	SAMPLING		Chlorides																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

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Relinquished By:

Date: 11-23-24

Received By:

Relinquished By:

Date:

Received By:

Delivered By: (Circle One)

Observed Temp. °C: 5.7

Sample Condition Cool Intact

CHECKED BY: (initials)

Turnaround Time: 24 hrs

Standard

Rush

Bacteria (only)

Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C: 5.1

Yes No

Yes No

Thermometer ID #113

Correction Factor: 0.5°C

Yes No

Yes No

Corrected Temp. °C

FORM-000 R-3.2 10/07/17

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

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 403401

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 403401
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2412749555
Incident Name	NAPP2412749555 PERLA VERDE 31 STATE 001H @ 30-025-42063
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-42063] PERLA VERDE 31 STATE COM #001H

**Location of Release Source***Please answer all the questions in this group.*

Site Name	PERLA VERDE 31 STATE 001H
Date Release Discovered	05/02/2024
Surface Owner	State

**Incident Details***Please answer all the questions in this group.*

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

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

Crude Oil Released (bbls) Details	Cause: Equipment Failure   Well   Crude Oil   Released: 3 BBL   Recovered: 1 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Well   Produced Water   Released: 23 BBL   Recovered: 4 BBL   Lost: 19 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 403401

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 403401
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 05/07/2024
--	--



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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 403401

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  403401
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	81
GRO+DRO (EPA SW-846 Method 8015M)	71
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/29/2024
On what date will (or did) the final sampling or liner inspection occur	02/12/2025
On what date will (or was) the remediation complete(d)	02/12/2025
What is the estimated surface area (in square feet) that will be reclaimed	4205
What is the estimated volume (in cubic yards) that will be reclaimed	470
What is the estimated surface area (in square feet) that will be remediated	4205
What is the estimated volume (in cubic yards) that will be remediated	470
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 403401

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  403401
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Kailee Smith Title: Regulatory Analyst Email: kailee.smith@exxonmobil.com Date: 11/14/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 403401

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  403401
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 403401

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 403401
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	400219
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/15/2024
What was the (estimated) number of samples that were to be gathered	40
What was the sampling surface area in square feet	4500

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 403401

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  403401
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. Submit remediation closure report to the OCD by 2/12/24.	11/14/2024