

March 3, 2025

New Mexico Oil Conservation Division 1220 South St. Francis Street Santa Fe, New Mexico 87505

Re: Closure Request

Shanghai

Incident Number nAPP2434453289

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, delineation, and soil sampling activities at the Shanghai (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a produced water release within a lined containment due to equipment failure. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing assessment and delineation activities that have occurred and requesting no further action and remediation closure approval for Incident Number nAPP2434453289.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 22, Township 25 South, Range 29 East in Eddy County, New Mexico (32.118675°, -103.974825°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On December 2, 2024, failure of a produced water pump resulted in the release of 100 barrels (bbls) of produced water into a lined containment. A vacuum truck was dispatched to the Site to recover free-standing fluid, and all released fluid was recovered. The pump was repaired and returned to service. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Notification of Release (NOR) and an Initial C-141 Application (C-141) on December 9, 2024. The release was assigned Incident Number nAPP2434453289.

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 between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. All nearby United State Geological Survey (USGS) and New Mexico Office of the State Engineer (NMOSE) wells indicate depth to groundwater is greater than 100 feet bgs. The nearest depth to groundwater data is USGS well 320719103584601 located 0.29 miles northwest

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XTO Energy, Inc. Closure Request Shanghai

of the Site with a recorded depth to groundwater of 165.05 feet bgs most recently measured on January 14, 1977. After pedestrian survey and investigation, the well is unable to be gauged for a more recent depth to groundwater measurement. However, 0.6 miles to the north of the Site, USGS well 320739103584201 was gauged with an oil/water interface probe on October 9, 2024 and had a depth to groundwater measurement of 141.98 feet bgs. East of the USGS well, a livestock well permitted by the NMOSE is documented to exist approximately 0.66 miles north of the Site and depth to water is documented at 60 feet bgs. In addition, 1.2 miles to the southeast of the Site, a soil boring drilled in July 2021 for regional depth to groundwater determination (C-4558) was drilled to a total depth of 109 feet bgs with no water encountered after 72 hours. Based on the regional depth to groundwater data, a variance request of the NMOCD preference of depth to groundwater data be within 25 years and 0.5 miles of the Site was submitted on February 21, 2025. The NMOCD approved the Variance for depth to groundwater for 51 feet to 100 feet bgs on February 27, 2025. All referenced well logs and the NMOCD variance approval are included in Appendix A. All depth to groundwater well are depicted on Figure 1.

The closest continuously flowing or significant watercourse is a dry wash located 1,450 feet south 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 approval of the Variance request, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

LINER INTEGRITY INSPECTION ACTIVITIES

After a review of the C-141, internal documents, and initial release photographs, it was confirmed the release occurred within the lined containment. The lined containment was cleaned of all debris, power washed and a 48-hour advance notice of the liner inspection was submitted to the NMOCD on December 11, 2024. On December 18, 2024, the lined containment was inspected by XTO personnel and was determined to contain a tear.

DELINEATION SOIL SAMPLING ACTIVITIES

Beginning on January 3, 2025, Ensolum personnel were at the Site to oversee delineation activities. One borehole, BH01, was advanced via hand auger and core drill to a depth of 8-feet bgs in the location of the tear in the liner. Four delineation boreholes, SS01 through SS04, were advanced via core drill around the lined containment to a maximum depth of 8 feet bgs to assess the lateral extent of the release. Due to competent formation, core drill refusal was reached at depths ranging from 3 feet bgs to 8 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations of the soil samples from the boreholes were logged on a lithologic/soil sampling logs, which are included in Appendix B. The delineation soil sample locations



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were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation 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 (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

LABORATORY ANALYTICAL RESULTS

Delineation soil samples, SS01 through SS04 collected from a depths ranging from 0.5 feet bgs to a maximum depth of 8 feet bgs indicated all COCs were in compliance with Site Closure Criteria and reclamation requirement, successfully defining the lateral extent of the release. Laboratory analytical results for delineation soil samples BH01 through BH01D, collected at depths ranging from 0.5 feet to 8 feet bgs, indicated all COCs were in compliance with Site Closure Criteria. In addition, delineation soil sample BH01D collected at 8 feet bgs indicated all COCs were compliant with the most stringent Closure Criteria successfully defining the vertical extent of the release. Laboratory analytical results are summarized in Table 1 and the laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

Liner integrity inspection and delineation activities were conducted at the Site to address the December 2, 2024, release of produced water. Laboratory analytical results for the delineation soil samples, collected in the liner tear and surrounding the lined containment, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. XTO has patched the tear in the liner following completion of delineation activities. An estimated 9,044 cubic yards of waste-containing soil remains below the 61,050 square foot lined containment, assuming it encompasses the entire area below the lined containment. The waste-containing soil will be addressed at pad abandonment.

Delineation of potential impacts at this Site determined no soil that exceeded Site Closure Criteria was located below the lined containment. Depth to groundwater has been estimated to be between 51 feet and 100 feet bgs and no other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2434453289.

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

Sincerely, **Ensolum**, **LLC**

Kim Thomason Senior Technician Tacoma Morrissey Associate Principal

Mouissey



XTO Energy, Inc. Closure Request Shanghai

cc: Dale Woodall, XTO

Kaylan Dirkx, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Appendix B Lithologic / Soil Sampling Logs

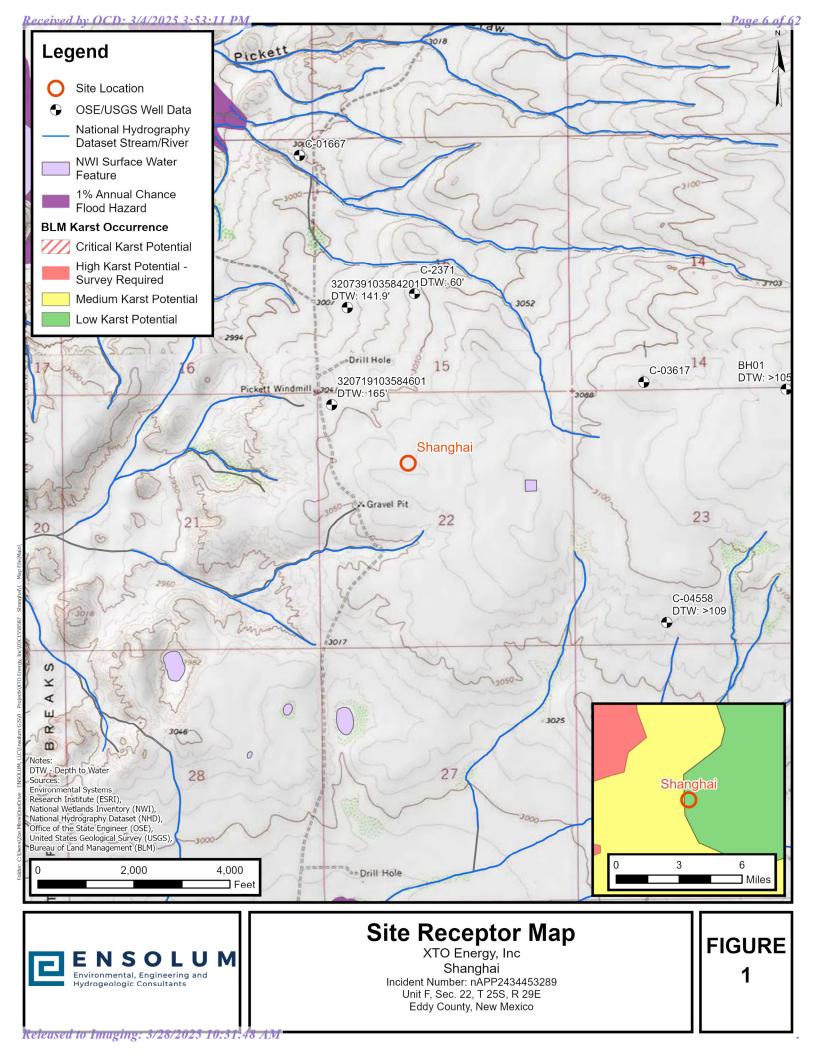
Appendix C Photographic Log

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation





FIGURES







Delineation Soil Sample LocationsXTO Energy, Inc

XTO Energy, Inc Shanghai Incident Number: nAPP2434453289 Unit F, Sec. 22, T 25S, R 29E Eddy County, New Mexico FIGURE 2



TABLES

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Shanghai XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I CI	osure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Delir	neation Soil Sa	mples	<u> </u>			
SS01	01/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS01A	01/15/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS02	01/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS02A	01/15/2025	7	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS03	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS03A	01/16/2025	5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS04	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS04A	01/16/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
BH01	01/03/2025	0.5	<0.050	<0.300	<10.0	22.6	<10.0	22.6	22.6	6,240
BH01A	01/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,240
BH01B	01/03/2025	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,400
BH01C	01/15/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,080
BH01D	01/15/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or

reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

 $\ensuremath{\mbox{\sc Grey}}$ text indicates soil sample removed during excavation activities

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APPENDIX A

Referenced Well Records



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater ~	United States	~	GC

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Groundwater levels for the Nation

■ Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 320719103584601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320719103584601 25S.29E.16.44444

Eddy County, New Mexico
Latitude 32°07'19", Longitude 103°58'46" NAD27
Land-surface elevation 3,042 feet above NAVD88
The depth of the well is 200 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

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	? Water- level approval status
1958-08-19		D	62610		2870.28	NGVD29	1	Z			
1958-08-19		D	62611		2871.86	NAVD88	1	Z			
1958-08-19		D	72019	170.14			1	Z			
1958-10-23		D	62610		2869.62	NGVD29	1	Z			
.958-10-23		D	62611		2871.20	NAVD88	1	Z			
1958-10-23		D	72019	170.80			1	Z			
1975-12-09		D	62610		2875.47	NGVD29	1	S			
1975-12-09		D	62611		2877.05	NAVD88	1	S			
1975-12-09		D	72019	164.95			1	S			
1976-01-16		D	62610		2873.30	NGVD29	1	S			
1976-01-16		D	62611		2874.88	NAVD88	1	S			
1976-01-16		D	72019	167.12			1	S			
977-01-14		D	62610		2875.37	NGVD29	1	S			
977-01-14		D	62611		2876.95	NAVD88	1	S			
L977-01-14		D	72019	165.05			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

Received by OCD: 3/4/2025 3:53:11 PM

Section	Code	Description
Water-level approval status	А	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>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels**

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-12-11 13:50:50 EST

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National Water Information System: Web Interface

USGS Water Resources

Geographic Area:		
New Mexico	~	GO

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Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 320739103584201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320739103584201 25S.29E.15.31134

Eddy County, New Mexico

Latitude 32°07'39", Longitude 103°58'42" NAD27

Land-surface elevation 3,017 feet above NAVD88

The depth of the well is 192 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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Date	Time	? Water- level	? Parameter	Water level, feet below	Water level, feet above	Referenced vertical	? Status	? Method of	? Measuring	? Source

Date	Time	Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source (measure
1983-02-01		D	62610		2875.02	NGVD29	1	Z		
1983-02-01		D	62611		2876.60	NAVD88	1	Z		
1983-02-01		D	72019	140.40			1	Z		
1987-10-20		D	62610		2875.09	NGVD29	1	Z		
1987-10-20		D	62611		2876.67	NAVD88	1	Z		
1987-10-20		D	72019	140.33			1	Z		
1992-11-06		D	62610		2874.61	NGVD29	1	S		
1992-11-06		D	62611		2876.19	NAVD88	1	S		
1992-11-06		D	72019	140.81			1	S		
1998-01-29		D	62610		2874.52	NGVD29	1	S		
1998-01-29		D	62611		2876.10	NAVD88	1	S		
1998-01-29		D	72019	140.90			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	А	Approved for publication Processing and review completed.

Questions or Comments Automated retrievals <u>Help</u> Data Tips **Explanation of terms** Subscribe for system changes <u>News</u>

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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: 2024-06-10 14:25:55 EDT

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WATER LEVEL AND PRODUCT THICKNESS FORM

Project No.:	0361558519	Page of /
Date:	10/9/24	
By:	David Mc Innis	

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WELL RECORD & LOG OFFICE OF THE STATE ENGINEER www.ose.state.nm.us

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LO	cation 2	55-2	9E-23	343			WELL.	TAG ID NO.			-5-	PAGE 2 OF 2

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STATE ENGINEER OFFICE **WELL RECORD**

Section 1. GENERAL INFORMATION

	Revised	June	19

OS MAR 16 AM 11 10

A) Owner of Street or	well — Joh Post Office Ad	nny Reid dress <u>245</u>	E. Lone	lon Rd.					NO	3 011106
City and	State Lovi	ng, N.M.	88256				5	SANTA	FE NEW	WEXICO
/ell was drilled	under Permit	No. <u>C = 2-3</u>	71		and i	s located				
a. <u>N.E.</u>	_ ¼ <u>_ SW</u> ¼	½	¼ of Sec	tion <u>15</u>	Tov	vnship	255 F	Range <u>2</u>	9 E	N.M.P.M
b. Tract	No	of Map No.	***	of (the				· · · · · · · · · · · · · · · · · · ·	
Subdiv	vision, recorded	lin <u>Edd</u>	у		_ County.					
					N.M. Coo	ordinate	System			
B) Drilling C	ontractor <u>c</u>	ampbell	Drillin;	5			License No.	WD-1	259	
ddresš <u>10</u>	W. Blevi	ns Rd.	A-1	rtesia,	, N.M.	3821	. 0			
rilling Began .	1-12-95	Comp	pleted 1-2.	4-95	Туре	tools	able	S	ize of hole <u>-</u>	10 1/2 in
						•	ft. Total dep			
•				,						
ompleted wel	lis 🔀 sl						upon completi	on or we	₩ 60	
Depth	in Feet	Sec Thickness	tion 2. PRING						Estimated	Yield
From	То	in Feet	r	Description	of Water-l	Bearing F	ormation	(gallons per	٠.
162	200	638	Cor	nglomer	ated	rock	or sand		20 GPM	+
										
		<u>.</u>								
Diameter	Pounds	When a side		n 3. RECOI		ASING			Parfo	orations
Diameter (inches)	per foot	Threads per in.					Type of S	Shoe	From	To
7	, 2 3		1 1/2	200			collar		140	200
						-		······		
						<u>-</u>				
				<u> </u>						
Depth	in Feet	Secti Hole	ion 4. RECOI		DDING A					_
From	То	Diameter	of M		of Ceme		Me	thod of	Placement	
			none					·		
				İ						
	I,		<u> </u>						-	
				n 5. PLUG	GING RE	CORD				
	actor						Denth	in Feet		ubic Feet
	od					No.	Тор	Bott		f Cement
ate Well Plug	ged					1				,
lugging appro						3		-		•
,		State Eng	gineer Repres	entative		4				
			FOR USE	OF STATE	ENGINI	ER ONI	LY			
ate Received	02-01-95	5		0.	uad		FWI	r:	Eci	, [
	0.007:									
File No	C-2371		<u>,</u>	Use	Stock		Location No	25.2	9.15.321	31

ed by OCD:	<i>3/4/2025 3:53:1</i>	11 PM	Section 6. LOG OF HOLE Page 2
Depth From	in Feet · To	Thickness in Feet	Color and Type of Material Encountered
0	3	3	Top Soil
3	42	39	Gravel Rock & very little shale
42	161	119	Sandstone (solid)
161	200	39	Conglomerated rowk & some sand (water bearing)
			·
			·
<u> </u>		,	
		. ,	
			·

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
ROSWELL NEW MEXICO

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

CIRKI

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, example Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this time is used as a plugging record, only Section 5 need be completed.



RE: [EXTERNAL] XTO - Variance Request - Shanghai - nAPP2434453289

From Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Date Thu 2/27/2025 3:47 PM

To Brown, Colton S <colton.s.brown@exxonmobil.com>

Cc Dirkx, Kaylan <kaylan.dirkx@exxonmobil.com>; robert.d.woodall@exxonmobil.com
<robert.d.woodall@exxonmobil.com>; ashley.a.mcafee@exxonmobil.com
<ashley.a.mcafee@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill

bbelill@ensolum.com>; Tracy Hillard <thillard@ensolum.com>

[**EXTERNAL EMAIL**]

Good Afternoon Colton,

The variance request for depth to groundwater determination is approved for 51 feet- 100 feet. Due to well number 02371 showing depth to water at 60' (.6 mi north of the incident location), a variance request for greater than 100' can not be approved.

Please let me know if you have any questions, Thanks, Scott

Scott Rodgers ● Environmental Specialist – Adv. Environmental Bureau EMNRD - Oil Conservation Division 5200 Oakland NE, Suite B | Albuquerque, NM 87113 505.469.1830 | scott.rodgers@emnrd.nm.gov http://www.emnrd.nm.gov/ocd



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Monday, February 24, 2025 7:10 AM

To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov> **Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] XTO - Variance Request - Shanghai - nAPP2434453289

From: Brown, Colton S < colton.s.brown@exxonmobil.com >

Sent: Friday, February 21, 2025 11:44 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Dirkx, Kaylan <<u>kaylan.dirkx@exxonmobil.com</u>>; Woodall, Robert D <<u>robert.d.woodall@exxonmobil.com</u>>; Mcafee, Ashley A <<u>ashley.a.mcafee@exxonmobil.com</u>>; Tacoma Morrissey <<u>tmorrissey@ensolum.com</u>>; Ben Belill

<belill@ensolum.com>; Tracy Hillard <thillard@ensolum.com>

Subject: [EXTERNAL] XTO - Variance Request - Shanghai - nAPP2434453289

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

XTO is requesting a variance of the depth to ground water determination recommendations for a recent spill at Shanghai (Site)— Incident Number nAPP2434453289 (32.118675, -103.974825). On December 2, 2024, failure of a produced water pump resulted in the release of 100 barrels (bbls) of produced water into a lined containment. A vacuum truck was dispatched to the Site to recover free-standing fluid, and all released fluid was recovered. XTO has vertically and laterally delineated the release per NMAC 19.15.29.

Attached is depth to groundwater documentation from the area surrounding the lined containment. All nearby USGS and NMOSE wells indicate depth to groundwater is greater than 100 feet bgs. The nearest depth to groundwater data is USGS well 320719103584601 located 0.29 miles northwest of the lined containment with a recorded depth to groundwater of 165.05 feet bgs most recently measured on January 14, 1977. After pedestrian survey and investigation, the well is unable to be gauged for a more recent depth to groundwater measurement. However, 0.6 miles to the north of the lined containment, USGS well 320739103584201 was gauged with an oil/water interface probe on October 9, 2024 and had a depth to groundwater measurement of 141.98 feet bgs. In addition, 1.2 miles to the southeast of the Site, a soil boring drilled in July 2021 for regional depth to groundwater determination (C-4558) was drilled to a total depth of 109 feet bgs with no water encountered after 72 hours. All referenced well logs are attached in Appendix A and depicted on Figure 1.

According to the Site Characterization, completed in accordance to 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), the Site is 1,423 feet south from a seasonal dry wash, though a desktop review of the dry wash determined it to be discontinuous and not classified as a significant watercourse. The closest significant watercourse is a dry wash located 4,108 feet to the southeast. 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). All potential Site receptors are identified on Figure 1.

Based on the presented additional depth to groundwater data provided - data within the last 4 months and located 0.6 miles from the Site- and a lack of nearby sensitive receptors, XTO requests a Variance of the NMOCD preference to have depth to water data be within 0.5 miles of the Site. XTO request approval the application of Closure Criteria reflective of groundwater depths of greater than 100 feet bgs, as demonstrated by the regional depth to groundwater data.

Thank you,

Colton BrownSpill Coordinator

ExxonMobil Upstream Company 3104 E. Greene St.

Carlsbad, NM 88220 Cell Phone: 575-988-2390

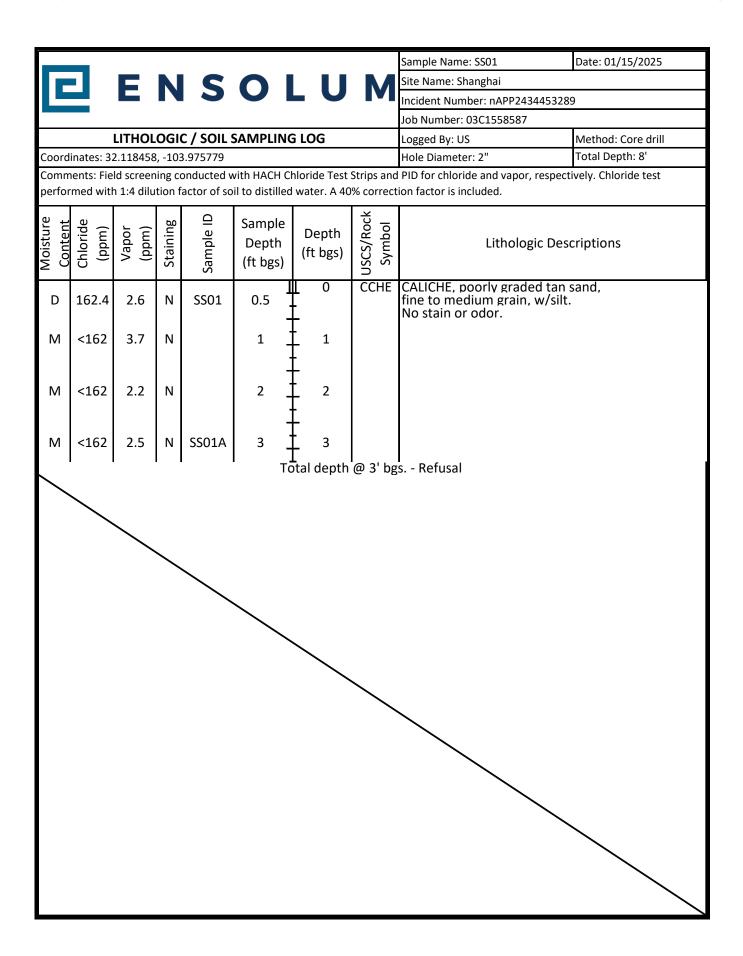
colton.s.brown@exxonmobil.com

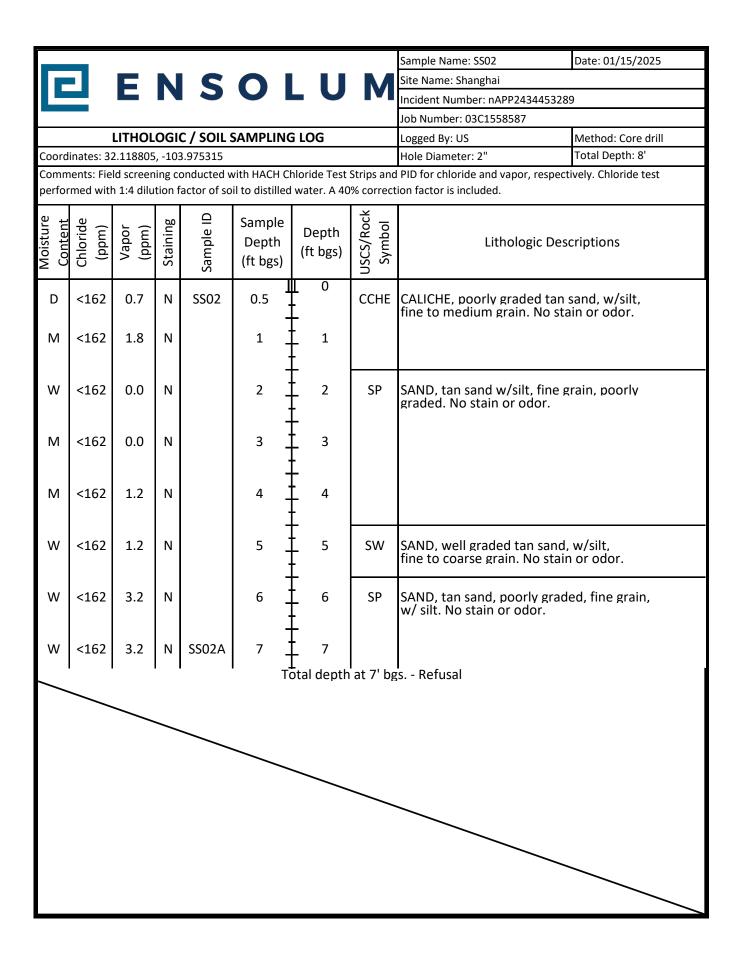


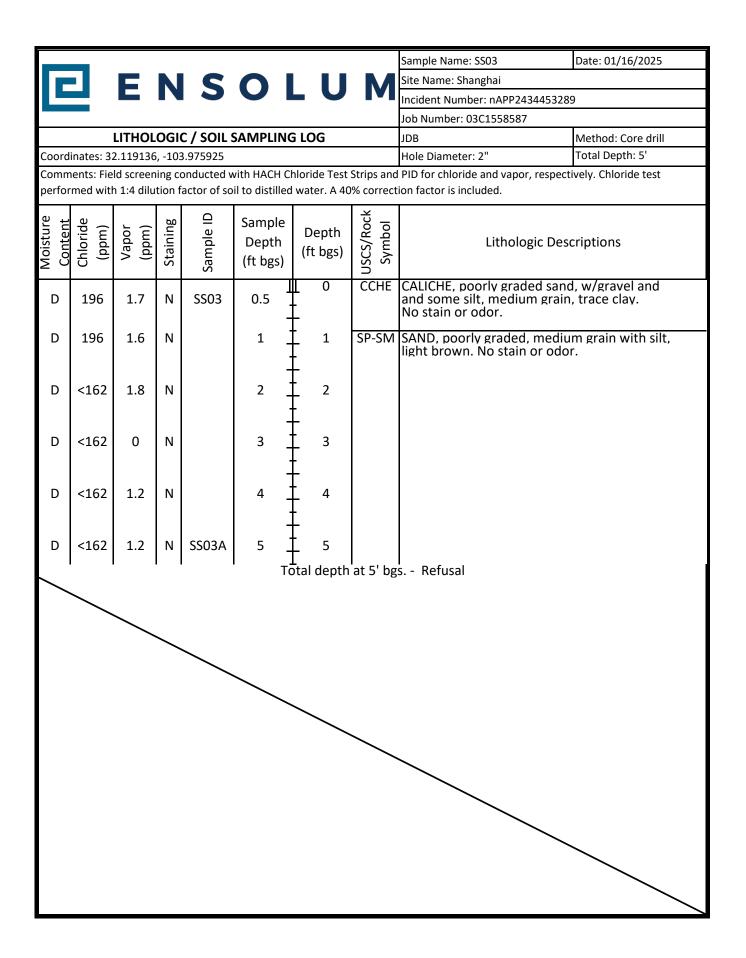
APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: BH01 Date: 01/15/2025	
	7			6			R.A	Site Name: Shanghai	
			V	3	OL	_ U	IVI	Incident Number: nAPP2434453289	
								Job Number: 03C1558587	
	L	ITHOLO	OGIC	S / SOIL S	AMPLING	LOG		Logged By: US Method: Core dri	II
Coord	nates: 32.	118579,	-103.	975802				Hole Diameter: 2" Total Depth: 8'	
			_			PID for chloride and vapor, respectively. Chloride test on factor is included.			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	8,607	0.0	N	BH01	0.5 <u> </u>	<u> </u>	CCHE	CALICHE, tan w/silt, sand and gravel. No stain or odor.	
D	8,607	0.0	N	BH01A	1 _	1			
D	8,607	0.7	N	BH01B	2 _	2 2			
W	5,886	1.8	N	вно1С	3 _	3 		No odor.	
М	1,713	3.4	N		4 _	- - 4 -	ССНЕ	CALICHE, coarse grain sand, poorly graded, w/silt, tan. No stain or odor.	
W	1,505	3.2	N		5 _	- _ 5 -	CCHE	CALICHE, medium grain tan sand, poorly graded w/silt. No stain or odor.	
М	840	2.7	N		6 _	- _ 6 -			
W	515	1.6	N		7 _	- - 7 -	CCHE	CALICHE, coarse grain tan sand, w/silt, poorly graded. No stain or odor.	
W	<164.2	2.9	N	BH01D	8 _	- _ 8 -	SP	SAND, find brown sand, poorly graded, w/little silt, non-cohesive. No stain or odor.	
						Total de	epth at 8	 8' bgs.	
			_						
							<u> </u>		







								ı	
					_			Sample Name: SS04	Date: 01/16/2025
		F	N	S	0 1		M	Site Name: Shanghai	
								Incident Number: nAPP24344	53289
								Job Number: 03C1558587	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: JDB	Method: Core drill
		2.118867						Hole Diameter: 2"	Total Depth: 8'
			-			PID for chloride and vapor, relion factor is included.	spectively. Chloride test		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	-	Descriptions
D	<162	0.3	Ν	SS04	0.5 <u>-</u>	L 0 - -	CCHE	CALICHE, poorly graded medium grain, pale beig No stain or odor.	sand, some silt, e, trace clay.
D	196	0.3	N		1 _	1	SP-SM	SAND, poorly graded, m No stain or odor.	edium grain with silt,
D	<162	1	N		2 _	2			
D	<162	0.6	Ν		3 _	3			
D	<162	0.6	Ν		4 _	4			
D	<162	0.5	N		5 _	- - 5 -	SM	SAND, poorly graded ligh medium grain. No stain	ht brown, w/silt, trace clay or odor.
D	<162	0.6	N		6 _	_ _ 6			
D	<162	0.6	Ν	SS02A	7	- _ 7			
D	<162	0.8	Ν	SS04A	8 _	- _ 8 -	Total de	epth at 8' bgs.	
				'		•	, , 5		
			_	_					
					_				
								_	
									_



APPENDIX C

Photographic Log



Photographic Log

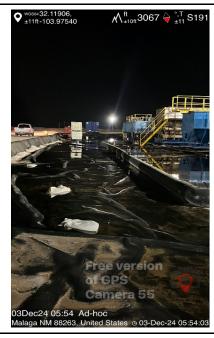
XTO Energy, Inc Shanghai nAPP2434453289



Photograph: 1 Date: 12/3/2024

Description: Release in containment

View: North



Photograph: 2 Date: 12/3/2024

Description: Release in containment

View: South



Photograph: 3 Date: 12/18/2024

Description: Liner Inspection Activities

View: Northeast



Photograph: 4 Date: 12/18/2024

Description: Tear observed in the liner

View: Direct



Photographic Log

XTO Energy, Inc Shanghai nAPP2434453289





Photograph: 1 Date: 01/03/2025

Description: Delineation activities

View: Northwest

Photograph: 2 Date: 01/16/2025

Description: Patched Liner

View: Direct





Photograph: 3 Date: 01/16/2025

Description: Delineation activities

View: South

Photograph: 4 Date: 01/16/2025

Description: Delineation activities

View: Southeast



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



January 08, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: SHANGHAI

Enclosed are the results of analyses for samples received by the laboratory on 01/06/25 11:30.

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

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/06/2025 Reported:

01/08/2025

Project Name: **SHANGHAI** Project Number: 03C1558587

Project Location: 32.118675, -103.974825 Sampling Date: 01/03/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: BH 01 .5' (H250029-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3	QR-03
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09	QR-03
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05	QR-03
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18	QR-03
Total BTEX	<0.300	0.300	01/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	01/06/2025	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	199	99.4	200	2.18	
DRO >C10-C28*	22.6	10.0	01/06/2025	ND	179	89.4	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					
Surrogate: 1-Chlorooctane	81.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

A I J D. ... 711

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/06/2025 Sampling Date: 01/03/2025

Reported: 01/08/2025 Sampling Type: Soil

Project Name: SHANGHAI Sampling Condition: Cool & Intact
Project Number: 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: 32.118675, -103.974825

ma/ka

Sample ID: BH 01A 1' (H250029-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3	
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18	
Total BTEX	<0.300	0.300	01/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	01/06/2025	ND	448	112	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	199	99.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	179	89.4	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/06/2025

Sampling Date:

01/03/2025

Reported: Project Name: 01/08/2025 SHANGHAI Sampling Type: Sampling Condition: Soil Cool & Intact

Project Number:

03C1558587

mg/kg

94.3 %

49.1-148

Sample Received By:

Tamara Oldaker

Project Location:

BTEX 8021B

32.118675, -103.974825

Sample ID: BH 01B 2' (H250029-03)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3	
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18	
Total BTEX	<0.300	0.300	01/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	01/06/2025	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	199	99.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	179	89.4	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					
Surrogate: 1-Chlorooctane	85.7	% 48.2-13	4						

Analyzed By: JH

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	NY (575) 393-2476		
(5/5) 393-2320	FAX (313) 333-2410	BILL TO	ANALYSIS REQUEST
Company Name: Ensolum, LLC			
Project Manager: Tracy Hillard		7.0. #.	
Address: 3122 National Parks Hwy	Ŋ	Company: XTO Energy Inc.	nc.
city: Carlsbad	State:NM Zip: 88220		
<u>6</u>	Fax#:	Address: 3104 E. Green	SE
Project #: 03C1558587	Project Owner: XTO		
Project Name: Shanghai		State: NM Zip: 88220	
ä.	974825	Phone #:	
Sampler Name: Jesse Dorman		1	
FOR LABUSE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(feet) (F	OTHER: ACID/BASE: CE / COOL OTHER:	BTEX TPH CHLORIDE
Mas even	#		
Sloya E	2 77	4	
	50		
PLEASE NOTE: Liability and Damages, Cardinal's liability an analyses. All claims including those for negligence and any of	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the please NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable graphs and received by Cardinal within 30 days after completion of the applicable arising whether based in writing and received by Cardinal within 30 days after completion of the applicable arising whether based in contract or tort, shall be limited to the amount paid by the client for the place.	act or tort, shall be limited to the amount paid by and received by Cardinal within 30 days after co to loss of use, or loss of profits incurred by clien	the client for the mpletion of the applicable till subsidiaries.
sendoe. In no event shall cardinal be liable to the performance affiliates or successors arising out of or related to the performance Relinquished By:	ance of services hereunder by Cardinal, regardless of whether such daim is based upon an Date: Received By:	im is based upon any of the above stated reason	ılt: □Yes ıre emailed. Pl
Delinquiched By:	Time://30 All Mills	ill Market sk	REMARKS: Cost Center: Incident ID: nAPP2434453289
		CHECKED BY:	Bacteria (only) S
Delivered By: (Circle One)	Cool Int	(Initials)	Rush Y cool Intact
Sampler - UPS - Bus - Other:	Corrected Temp. °C Q. 7	4	C TO. 1/6/25

FORM-006 R 3.2 10/07/21 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Page 6 of 6



January 17, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: SHANGHAI

Enclosed are the results of analyses for samples received by the laboratory on 01/16/25 13:39.

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

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/16/2025 Reported: 01/17/2025

01/17/2025 SHANGHAI

Project Name: SHANGHAI
Project Number: 03C1558587

Project Location: XTO 32.118675, -103.974825

Sampling Date: 01/15/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 01C 3' (H250262-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	2.11	106	2.00	3.04	
Toluene*	<0.050	0.050	01/17/2025	ND	2.13	107	2.00	2.68	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.18	109	2.00	5.74	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.47	108	6.00	6.99	
Total BTEX	<0.300	0.300	01/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	01/17/2025	ND	416	104	400	3.77	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	184	92.1	200	0.0934	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	184	92.1	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					
Surrogate: 1-Chlorooctane	87.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

A I J D. ... 711

Cardinal Laboratories *=Accredited Analyte

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Celeg & Frence



Analytical Results For:

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

Received: 01/16/2025 Sampling Date: 01/15/2025

Reported: 01/17/2025 Sampling Type: Soil

Project Name: SHANGHAI Sampling Condition: Cool & Intact
Project Number: 03C1558587 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.118675, -103.974825

Sample ID: BH 01D 8' (H250262-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	2.11	106	2.00	3.04	
Toluene*	<0.050	0.050	01/17/2025	ND	2.13	107	2.00	2.68	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.18	109	2.00	5.74	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.47	108	6.00	6.99	
Total BTEX	<0.300	0.300	01/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/17/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	184	92.1	200	0.0934	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	184	92.1	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					
Surrogate: 1-Chlorooctane	86.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.0	% 49.1-14	8						

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Celeg & Freene



Analytical Results For:

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

Received: 01/16/2025

Sampling Date:

01/15/2025

Reported: 01/17/2025 Project Name: SHANGHAI Sampling Type:

Soil

Project Number: 03C1558587

Sampling Condition: Sample Received By: Cool & Intact Alyssa Parras

Project Location:

XTO 32.118675, -103.974825

Sample ID: SS 01 0.5' (H250262-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	2.11	106	2.00	3.04	
Toluene*	<0.050	0.050	01/17/2025	ND	2.13	107	2.00	2.68	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.18	109	2.00	5.74	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.47	108	6.00	6.99	
Total BTEX	<0.300	0.300	01/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	184	92.1	200	0.0934	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	184	92.1	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.7	% 49.1-14	8						

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Celey D. Keine



01/15/2025

Analytical Results For:

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

Received: 01/16/2025 Sampling Date:

Reported: 01/17/2025 Sampling Type: Soil
Project Name: SHANGHAI Sampling Condition: Cool

Project Name: SHANGHAI Sampling Condition: Cool & Intact
Project Number: 03C1558587 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.118675, -103.974825

ma/ka

Sample ID: SS 01A 3' (H250262-04)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	2.11	106	2.00	3.04	
Toluene*	<0.050	0.050	01/17/2025	ND	2.13	107	2.00	2.68	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.18	109	2.00	5.74	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.47	108	6.00	6.99	
Total BTEX	<0.300	0.300	01/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/17/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	184	92.1	200	0.0934	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	184	92.1	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 01/16/2025 01/17/2025

Project Name: **SHANGHAI** Project Number: 03C1558587

Project Location: XTO 32.118675, -103.974825 Sampling Date: 01/15/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: SS 02 0.5' (H250262-05)

Reported:

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	2.11	106	2.00	3.04	
Toluene*	<0.050	0.050	01/17/2025	ND	2.13	107	2.00	2.68	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.18	109	2.00	5.74	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.47	108	6.00	6.99	
Total BTEX	<0.300	0.300	01/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/17/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	192	96.0	200	4.66	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	175	87.5	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					
Surrogate: 1-Chlorooctane	83.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 01/16/2025 Sampling Date: 01/15/2025

Reported: 01/17/2025 Sampling Type: Soil

Project Name: **SHANGHAI** Sampling Condition: Cool & Intact 03C1558587 Project Number: Sample Received By: Alyssa Parras

Project Location: XTO 32.118675, -103.974825

Sample ID: SS 02A 7' (H250262-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	2.11	106	2.00	3.04	
Toluene*	<0.050	0.050	01/17/2025	ND	2.13	107	2.00	2.68	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.18	109	2.00	5.74	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.47	108	6.00	6.99	
Total BTEX	<0.300	0.300	01/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/17/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	192	96.0	200	4.66	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	175	87.5	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					
Surrogate: 1-Chlorooctane	73.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.2	% 49.1-14	8						

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Celey D. Keine



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC	Ensolum, LLC			BILL TO		ANALYSIS REQUEST
Project Manager: Tracy Hillard	:Tracy Hillard			P.O. #:		
Address: 601 N N	Address: 601 N Marienfeld Street, Suite 400	uite 400		Company: XTO Energy, Inc	y, Inc	
City: Midland		State: TX	Zip: 79701	Attn: Colton Brown		
Phone #: 575-937-3906	17-3906	Fax #:		Address: 3104 E Greene	ene St	
Project #: 03C1558587	1558587	Project Owner:	: XTO Energy	City: Carlsbad		
Project Name: Shanghai	hanghai			State: NM Zip: 88220	20	
Project Location	Project Location: 32.118675,-103.974825	3.974825		Phone #:		
Sampler Name: Uriel Santillana	Jriel Santillana			Fax #:		
FOR LAB USE ONLY			MATRIX	PRESERV. SAM	SAMPLING	
Lab I.D.	Sample I.D.	Depth (feet)	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER WASTEWATER GOIL DIL GLUDGE	OTHER: ACID/BASE: CE/COOL OTHER:	TPH 8015 BTEX 8021 Chloride 4500	
	BHOIC	3,	1 ×	×	XXX OFFI	
e	BHOZD	%	61 X	×	1350	
U	5501	0.5			1413	
h	5501A	Ŋ			Shhi	
·^-	5502	0.5'			1512	
6	5502A	ť	4	<	1625 4 4 4	
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Cau	d Damages. Cardinal's liability and g those for negligence and any of gridnal be liable for incidental or contact of problems.	d client's exclusive remedy for an ther cause whatsoever shall be of onsequental damages, including	ny claim arising whether based in contra leemed waived unless made in writing a without limitation, business interruptions	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal writin 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without inflation, business interruptions, loss of use, or loss of profits incurred by blacking the subsidiaries.	id by the client for the er completion of the applicable client, its subsidiaries, asons or otherwise.	
Relinquished By:	P	Date: 1 - 10 - a ら	Received By:		sult: ☐ Yes are emailed.	Please provide Email address: usantillana@ensolum.com
Relinquished By:	Ry:	Time:	Received By:	0	REMARKS: Incident Number: nAPP2434453289	■, TMorrissey@ensolum.com, THillard@ensolum.com t Number: nAPP2434453289
		Time:				
Delivered By: (Circle One)		Observed Temp. °C 01.	Sample Condition	tion CHECKED BY:	Turnaround Time: Star	Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:		Corrected Temp. °C	(lo s	15°C	Yes Yes

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

Page 9 of 9



January 24, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: SHANGHAI

Enclosed are the results of analyses for samples received by the laboratory on 01/20/25 12:06.

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

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/20/2025
Reported: 01/24/2025
Project Name: SHANGHAI

Project Name: SHANGHAI
Project Number: 03C1558587

Project Location: XTO 32.118675, -103.974825

Sampling Date: 01/16/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 03 0.5' (H250319-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2025	ND	1.93	96.7	2.00	0.188	
Toluene*	<0.050	0.050	01/22/2025	ND	2.03	101	2.00	0.408	
Ethylbenzene*	<0.050	0.050	01/22/2025	ND	1.95	97.5	2.00	0.799	
Total Xylenes*	<0.150	0.150	01/22/2025	ND	5.75	95.9	6.00	1.13	
Total BTEX	<0.300	0.300	01/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/22/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	209	104	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	199	99.7	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

A I J D. ... 711

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Analytical Results For:

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

Received: 01/20/2025 Sampling Date: 01/16/2025

Reported: 01/24/2025 Sampling Type: Soil

Project Name: SHANGHAI Sampling Condition: Cool & Intact
Project Number: 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.118675, -103.974825

Sample ID: SS 03 A 5' (H250319-02)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2025	ND	1.93	96.7	2.00	0.188	
Toluene*	<0.050	0.050	01/22/2025	ND	2.03	101	2.00	0.408	
Ethylbenzene*	<0.050	0.050	01/22/2025	ND	1.95	97.5	2.00	0.799	
Total Xylenes*	<0.150	0.150	01/22/2025	ND	5.75	95.9	6.00	1.13	
Total BTEX	<0.300	0.300	01/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/22/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	209	104	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	199	99.7	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/20/2025 Sampling Date: 01/16/2025

Reported: 01/24/2025 Sampling Type: Soil

Project Name: **SHANGHAI** Sampling Condition: Cool & Intact 03C1558587 Sample Received By: Project Number: Tamara Oldaker

Project Location: XTO 32.118675, -103.974825

Sample ID: SS 04 0.5' (H250319-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2025	ND	1.93	96.7	2.00	0.188	
Toluene*	<0.050	0.050	01/22/2025	ND	2.03	101	2.00	0.408	
Ethylbenzene*	<0.050	0.050	01/22/2025	ND	1.95	97.5	2.00	0.799	
Total Xylenes*	<0.150	0.150	01/22/2025	ND	5.75	95.9	6.00	1.13	
Total BTEX	<0.300	0.300	01/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/22/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2025	ND	209	104	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/22/2025	ND	199	99.7	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	01/22/2025	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/20/2025 Sampling Date: 01/16/2025

Reported: 01/24/2025 Sampling Type: Soil

Project Name: SHANGHAI Sampling Condition: Cool & Intact
Project Number: 03C1558587 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.118675, -103.974825

mg/kg

Sample ID: SS 04 A 8' (H250319-04)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2025	ND	1.93	96.7	2.00	0.188	
Toluene*	<0.050	0.050	01/22/2025	ND	2.03	101	2.00	0.408	
Ethylbenzene*	<0.050	0.050	01/22/2025	ND	1.95	97.5	2.00	0.799	
Total Xylenes*	<0.150	0.150	01/22/2025	ND	5.75	95.9	6.00	1.13	
Total BTEX	<0.300	0.300	01/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/22/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2025	ND	209	104	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/22/2025	ND	199	99.7	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	01/22/2025	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

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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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FORM-006 R 3.2 10/07/21

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2320	575) 393-2326 FAX (5/5) 393-24/6			
Company Name: Ensolum, LLC		BILL TO	AN	ANALYSIS REQUEST
Project Manager: Tracy Hillar	W d	P.O. #:		
Address: 3122 National Parks Hwy	У	Company: XTO Energy Inc	/ Inc	
City: Carlsbad	State: NM Zip: 88220	Attn: Colton Brown		
Phone #: 575 037 3906	Fax #:	Address: 3104 E Green St	n St	
Project #: 0301558 587	Project Owner: XTO	City: Carlsbad		
me: Shawa		State: NM Zip: 88220	0	
ă	5-103,974 825	Phone #:		
Sampler Name: Joshua Boxley		Fax #:		
FOR LAB USE ONLY	\top	MATRIX PRESERV. SAM	SAMPLING	
Lab I.D. Sample I.D.		OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Chlorides TPH BTEX	
4	5, 611	X 1.16.25	N & K 9511	
1	5 5	,		
T CLUMY TO COL	2	11625	XXX	
				787
\	1			
PLEASE NOTE: Liability and Damages. Cardinal's liability and Damages. Cardinal's liability analyses. All claims including those for negligence and at service. In no event shall Cardinal be liable for incidental.	ent's exclusive remedy for any claim cause whatsoever shall be deemed cause whatsoever shall be deemed squental damages, including without confined to the con	arising whether based in contract or tort, shall be limited to the amount per wahed unless made in writing and received by Cardinal within 30 days affil limitation, business interruptions, loss of use, or loss of profits incurred by incurred by the state of the above stated in the state of the	id by the client for the er completion of the applicable client, its subsidiaries, client, its subsidiaries, easons or otherwise.	
Relinquished By:	Date: 20-25 Re	and the state of t	are ult:	□ Yes □ No Add'l Phone #: emailed. Please provide Email address: @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com
Relinquished By:	Date: Received By:		REMARKS: NATIONAL SHUG 3289 Incident: WARD THE STAR STAR STAR STAR STAR STAR STAR STAR	
Delivered By: (Circle One)	Observed Temp. °C //O Sample	O CHE	Turnaround Time: Standard Rush	ις B
Sampler - UPS - Bus - Other:	Corrected Temp. °C ON TYPE	Tres Pres	Thermometer ID: # 14	☐ Yes ☐ Yes ☐ No ☐ Corrected Temp. °C

Page 7 of 7

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 438867

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	438867
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434453289
Incident Name	NAPP2434453289 SHANGHAI [FVV2103456039] @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SHANGHAI [fVV2103456039]
Date Release Discovered	12/02/2024
Surface Owner	Federal

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 fo	or 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	Cause: Equipment Failure Pump Produced Water Released: 100 BBL Recovered: 100 BBL Lost: 0 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)	email notification sent on 12/03/2024

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

QUESTIONS, Page 2

Action 438867

QUESTI	ONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
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.	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 s	afety 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.
	I ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 12/09/2024

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 438867

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	438867
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (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	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (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	
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.		
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)	6400	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	22.6	
GRO+DRO (EPA SW-846 Method 8015M)	22.6	
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	12/02/2024	
On what date will (or did) the final sampling or liner inspection occur	01/16/2025	
On what date will (or was) the remediation complete(d)	01/16/2025	
What is the estimated surface area (in square feet) that will be reclaimed	61050	
What is the estimated volume (in cubic yards) that will be reclaimed	9044	
What is the estimated surface area (in square feet) that will be remediated	61050	
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.

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 438867

QUES HUNS (CUI III IUCU	Ql	JES 1	TIONS	(continued)
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Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	438867
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Yes	
Other Non-listed Remedial Process. Please specify	No impacted soil located	
Par Cubacation P. of 40.45.20.44 NIMAC unless the site observatorization report includes completed efforts at remodiation, the report must include a prepared remodiation plan in accordance with 40.45.20.42 NIMAC		

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: Ashley Mcafee Email: ashley.a.mcafee@exxonmobil.com Date: 03/04/2025
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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.

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 438867

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	438867
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 438867

QUESTI	ONS (continued)
Operator: XTO ENERGY, INC	OGRID: 5380
6401 Holiday Hill Road Midland, TX 79707	Action Number: 438867
Middand, 1X 19101	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Sampling Event Information	
Last sampling notification (C-141N) recorded	418818
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2025
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	2000
Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all re	· · · · · · · · · · · · · · · · · · ·
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
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	Yes
What was the total surface area (in square feet) remediated	61050
What was the total volume (cubic yards) remediated	0
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	Yes
What was the total surface area (in square feet) reclaimed	61050
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Liner integrity inspection and delineation activities were conducted at the Site to address the December 2, 2024, release of produced water. Laboratory analytical results for the delineation soil samples, collected in the liner tear and surrounding the lined containment, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. XTO has patched the tear in the liner following completion of delineation activities. An estimated 9,044 cubic yards of waste-containing soil remains below the 61,050 square foot lined containment, assuming it encompasses the entire area below the lined containment. The waste-containing soil will be addressed at pad abandonment.

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: Ashley Mcafee Email: ashley.a.mcafee@exxonmobil.com
	Date: 03/04/2025

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

QUESTIONS, Page 7

Action 438867

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	438867
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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

CONDITIONS

Action 438867

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	438867
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By		Condition Date
scott.rodgers	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.	3/28/2025