ENSOLUM

January 7, 2025

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

Re: Remediation Work Plan
JRU 124 Battery
Incident Number nAPP2428369219
Eddy 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 site assessment and delineation activities completed to date and propose a work plan to address impacted soil identified at the JRU 124 Battery (Site). The purpose of the site assessment and delineation activities was to delineate the lateral and vertical extent of impacted soil resulting from a release of crude oil and produced water at the Site. The following *Work Plan* proposes to excavate impacted soil within the top 4 feet of the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 17, Township 23 South, Range 31 East, in Eddy County, New Mexico (32.30496°, -103.80258°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On October 9, 2024, due to alarms status failure, tanks located within a lined containment overflowed, resulting in the release of 863 barrels (bbls) of produced water and 28 bbls of crude oil onto the facility pad and into the adjacent pasture. A vacuum truck was dispatched to recover free-standing fluids. Approximately 859 bbls of fluids were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on October 9, 2024, and subsequently submitted an initial C-141 Application (C-141) on October 10, 2024. The release was assigned Incident Number nAPP2428369219.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. A United States Geological Survey (USGS) permitted well (321809103481801) located 0.26 miles southwest of the Site indicates a groundwater depth of 129 feet bgs, last measured on January 16, 2013. The total depth of the well is 354 feet bgs. The well location is depicted on Figure 1 and the Well Record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash located approximately 8,298 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by stable geology (low potential karst designation area).

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

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On October 25, 2024, Ensolum personnel conducted a site assessment to evaluate the release extent based on information provided on the C-141 and visual observations. Ensolum personnel collected five discrete delineation soil samples (SS01 through SS05) within the release extent from a depth of 0.5 feet bgs to assess soil impacts caused by the release. 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 release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

Between November 26 and December 31, 2024, Ensolum personnel returned to the Site to conduct delineation activities. Five boreholes (BH01 through BH05) were advanced in the vicinity of soil sample locations SS01 through SS05, respectively. The boreholes were advanced via hand auger up to a maximum depth of 8 feet bgs. Discrete soil samples were collected from each borehole at depths ranging from 1-foot bgs to 8-feet bgs. Field screening results and observations were logged on lithologic/soil sampling logs and are included in Appendix B. In order to confirm the lateral extent of the release, delineation soil samples SS06 through SS14 were collected just outside the release extent area to confirm the edge of the release. All delineation soil samples were field screened, handled, and analyzed for the same COCs as described above and submitted to Cardinal. The soil sample locations are depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix C.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS05 collected at 0.5 feet bgs indicated BTEX, TPH-GRO/TPH-DRO, TPH, and/or chloride concentrations exceed the Closure Criteria. All other delineation soil samples collected indicated all COC concentrations were below the Closure Criteria.

Soil samples collected at the terminal depths of each borehole, ranging from 4 feet to 8 feet bgs, indicated COC concentrations were compliant with the Closure Criteria and successfully defines the vertical extent of impacted soil. Laboratory analytical results for delineation soil samples SS06 through SS14 collected outside the release extent indicated COC concentrations were compliant with the Closure Criteria and successfully defines the lateral extent of the release. Laboratory Analytical Reports & Chain-of-Custody Documentation are presented in Appendix D.

PROPOSED REMEDIATION WORK PLAN

Site assessment and delineation activities were completed at the Site following a produced water and crude oil release from October 9, 2024. Delineation soil sampling results indicate impacted and waste-containing soil exists across an approximate 12,400 square foot area and extends to a maximum depth of 4 feet bgs. XTO proposes the following remediation activities:

- A 48-hour advanced notice of a liner inspection will be submitted to the NMOCD and a liner integrity inspection will be conducted. The liner shall be cleaned of all debris and/or release staining and upon inspection, no rips, tears, holes, or damage are anticipated to be observed. If any such liner breach is identified during the inspection, then additional delineation activities within the lined containment will be conducted.

- Excavation of impacted soil to approximate depths ranging from 1-foot to 4 feet bgs. Analytical results for SS04/BH04 indicated COC concentrations are below reclamation requirement at 1-foot bgs. All other delineation soil sample laboratory analytical results indicated either impacted soil or waste-containing soil was present to a depth of 4 feet bgs. Excavation will proceed laterally until sidewall samples confirm that all COC concentrations are compliant with the Closure Criteria and reclamation requirement where applicable. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any active production equipment which may limit access to portions of impacted soil. The proposed excavation extent is depicted on Figure 3.
- Following excavation activities, 5-point composite soil samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Due to the estimated size of the excavation, XTO requests a variance for frequency of excavation confirmation samples. XTO proposes the five-point composite samples to be collected at a sampling frequency of 400 square feet along the excavation floor and sidewalls. The proposed sampling frequency would reduce the total amount of samples from approximately 62 samples (200 square feet) to approximately 31 samples. The soil samples will be handled as described above and analyzed for the same COCs described above.
- An estimated 1,800 cubic yards of impacted soil is estimated to be removed. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing condition and the pasture area will be reseeded with a BLM-approved seed mixture.

XTO believes this *Work Plan* is protective of human health, the environment, and groundwater. As such, XTO requests approval of this *Work Plan* by NMOCD. XTO will proceed with the excavation and soil

sampling activities and will submit a Closure Report 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.

Sincerely,
Ensolum, LLC

Jesse Dorman
Associate Geologist

Tacoma Morrissey, MS
Associate Principal

cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

Figure 1	Site Receptor 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	Lithologic / Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation

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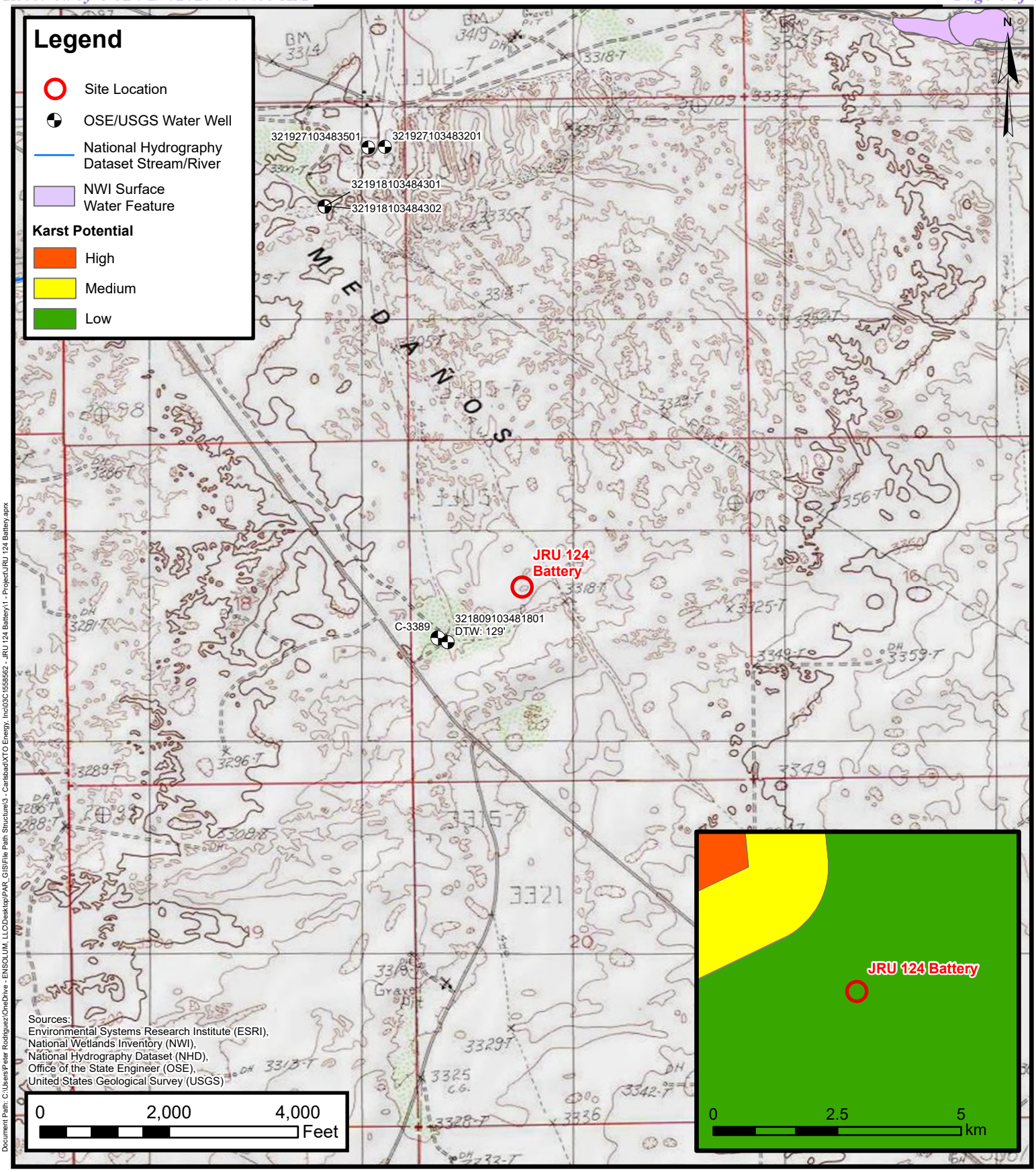
FIGURES



Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure\3 - Carlsbad\XTO Energy, Inc\03C1558562 - JRU 124 Battery\1 - Project\JRU 124 Battery.aprx

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Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc

JRU 124 Battery

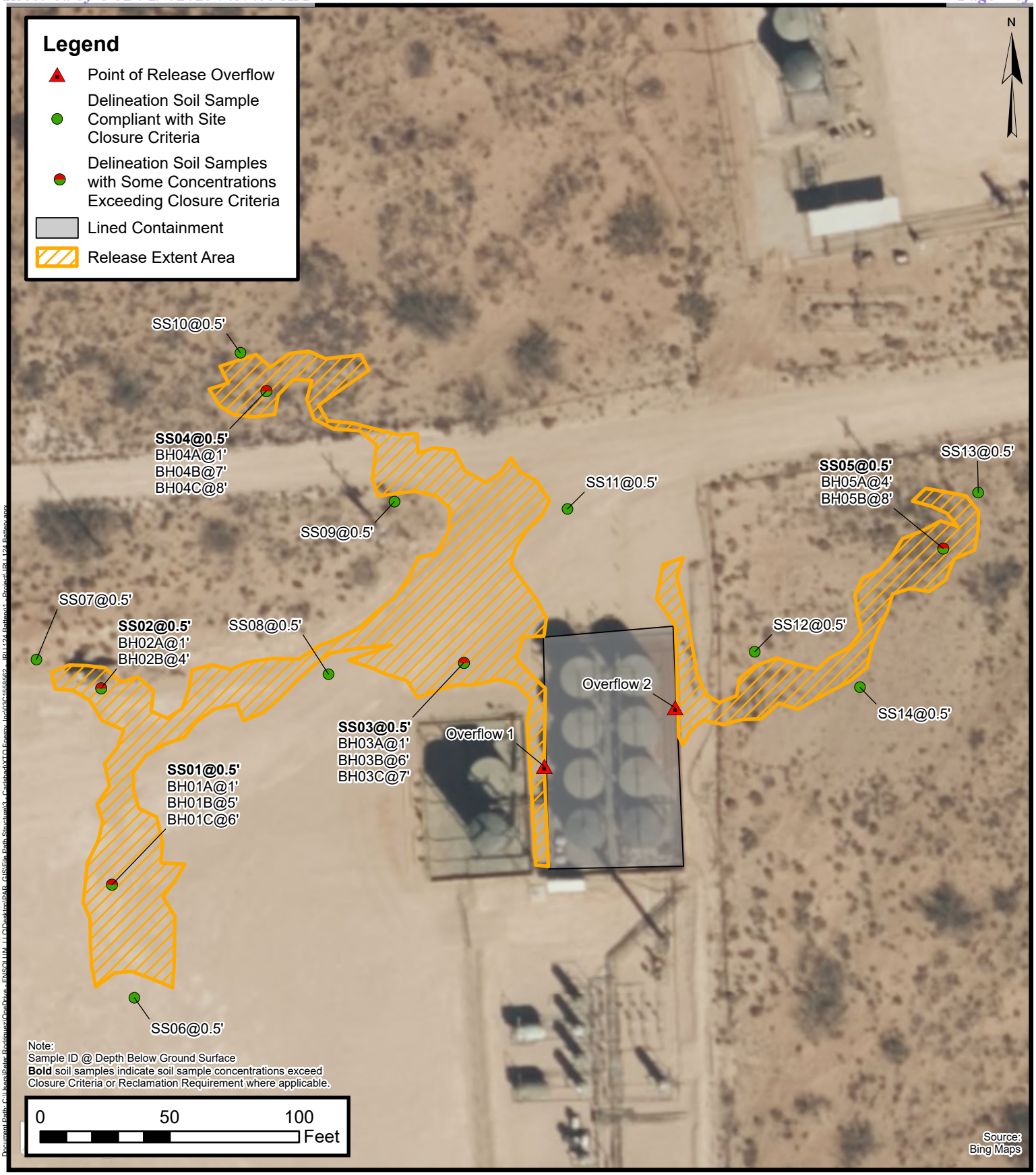
Incident Number: nAPP2428369219

Unit F, Section 17, T 23S, R 31E

Eddy County, New Mexico

FIGURE

1



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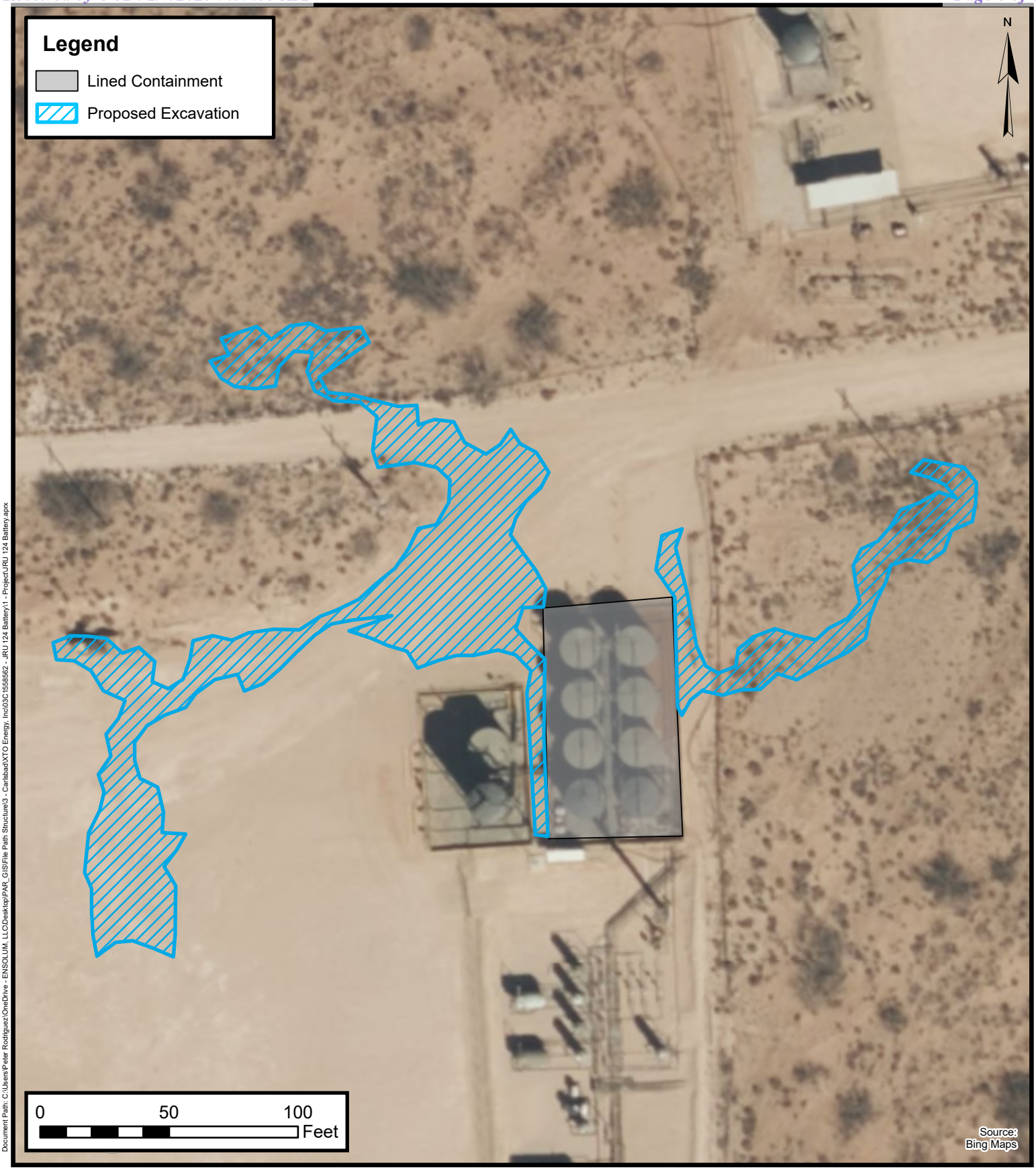
Delineation Soil Sample Locations

XTO Energy, Inc
JRU 124 Battery
Incident Number: nAPP2428369219
Unit F, Section 17, T 23S, R 31E
Eddy County, New Mexico

FIGURE
2



Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure\3 - Carlsbad\XTO Energy, Inc\03C1558562 - JRU 124 Battery\1 - Project\JRU 124 Battery.aprx

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Proposed Excavation Extent

XTO Energy, Inc
JRU 124 Battery
Incident Number: nAPP2428369219
Unit F, Section 17, T 23S, R 31E
Eddy County, New Mexico

FIGURE
3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
JRU 124 Battery
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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	10/25/2024	0.5	0.331	**62.0**	755	4,210	778	**4,965**	**5,743**	13,800
BH01A	11/26/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,760
BH01B	11/26/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH01C	11/26/2024	6	<0.050	<0.300	<10.0	68.2	<10.0	68.2	68.2	80.0
SS02	10/25/2024	0.5	0.123	40.1	1,070	5,780	1,030	**6,850**	**7,880**	10,000
BH02A	11/26/2024	1	<0.050	<0.300	<10.0	109	<10.0	109	109	944
BH02B	11/26/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,280
SS03	10/25/2024	0.5	0.121	**52.3**	1,640	15,900	3,300	**17,540**	**20,840**	5,280
BH03A	11/26/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
BH03B	11/26/2024	6	<0.050	<0.300	<10.0	43.8	<10.0	43.8	43.8	704
BH03C	11/26/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	624
SS04	10/25/2024	0.5	<0.050	3.39	66.4	2,110	472	**2,176**	**2,648**	7,200
BH04A	11/26/2024	1	<0.050	<0.300	<10.0	16.0	<10.0	16.0	16.0	80.0
BH04B	11/26/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
BH04C	11/26/2024	8	<0.050	<0.300	<10.0	166	16.7	166	182.7	512
SS05	10/25/2024	0.5	<0.200	**95.1**	2,290	11,500	2,080	**13,790**	**15,870**	**21,200**
BH05A	11/26/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,410
BH05B	11/26/2024	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
SS06	12/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS07	12/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS08	12/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS09	12/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS10	12/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS11	12/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SS12	12/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
JRU 124 Battery
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 Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
SS13	12/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SS14	12/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

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

~~Grey~~ text indicates soil sample removed during excavation activities

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APPENDIX A

Referenced Well Records

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 the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321809103481801

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321809103481801 23S.31E.17.31141

Eddy County, New Mexico
Latitude 32°18'11.3", Longitude 103°48'23.4" NAD83
Land-surface elevation 3,326.00 feet above NGVD29
The depth of the well is 354 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 measur
1959-02-04		D	62610		3215.16	NGVD29	P	Z		
1959-02-04		D	62611		3216.80	NAVD88	P	Z		
1959-02-04		D	72019	110.84			P	Z		
1987-10-15		D	62610		3214.80	NGVD29	1	Z		
1987-10-15		D	62611		3216.44	NAVD88	1	Z		
1987-10-15		D	72019	111.20			1	Z		
1992-11-04		D	62610		3216.32	NGVD29	1	S		
1992-11-04		D	62611		3217.96	NAVD88	1	S		
1992-11-04		D	72019	109.68			1	S		
2013-01-16	23:30 UTC	m	62610		3197.36	NGVD29	P	S	USGS	
2013-01-16	23:30 UTC	m	62611		3199.00	NAVD88	P	S	USGS	
2013-01-16	23:30 UTC	m	72019	128.64			P	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day

Section	Code	Description
Water-level date-time accuracy	m	Date is accurate to the Minute
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
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
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 USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2024-11-19 12:04:39 EST
0.37 0.28 nadww01

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APPENDIX B

Lithologic Soil Sampling Logs

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Sample Name: SS01/BH01	Date: 11/26/2024	
Site Name: JRU 124 Battery		
Incident Number: nAPP2428369219		
Job Number: 03C1558562		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: JDB	Method: hand auger
Coordinates: 32.305247, -103.803235	Hole Diameter: 4"	Total Depth: 6'

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. 40% correction factor included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	13,297	890	Y	SS01	0.5	0	CCHE (fill)	(0-1'), CALICHE, well graded, tan, medium grain to gravel size, strong TPH odor, fill.
D	<162.4	95.7	Y	BH01A	1	1	SP	(1-4') SAND, Fine to medium grained, Poorly Graded, poorly consolidated, Reddish Brown.
D	<162.4	23.2	N			2		
D	<162.4	26.3	N			3		
D	<162.4	67.1	N			4	CCHE	(4-5'), CALICHE, well graded, tan, medium grained to gravel, no odor, well consolidated.
D	<162.4	2.4	N	BH01B	5	5	SP-S	(5-6'), SANDSTONE, reddish brown, Fine to medium grained, moderately consolidated, no odor.
D	<162.4	85	N	BH01C	6	6		Refusal @ 6'

Total Depth @ 6' BGS

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	Sample Name: SS02/BH02	Date: 11/26/2024
	Site Name: JRU 124 Battery	
	Incident Number: nAPP2428369219	
	Job Number: 03C1558562	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: JDB	Method: hand auger
Coordinates: 32.305453, -103.803249	Hole Diameter: 4"	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. 40% correction factor included. NS=Not Screened.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	19,409	1288	Y	SS02	0.5	0	CCHE (fill)	(0-1'), CALICHE, well graded, tan, medium grain to gravel size, strong TPH odor, fill.
D	1366	60.9	N	BH02A	1	1	SP	(1-4') SAND, Fine to medium grained, Poorly Graded, poorly consolidated, Redish Brown, no odor.
D	NS	NS	N			2		
D	NS	15	N			3		
D	NS	14.5	N	BH02B	4	4		

Total Depth @ 4' BGS

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Sample Name: SS03/BH03	Date: 11/26/2024	
Site Name: JRU 124 Battery		
Incident Number: nAPP2428369219		
Job Number: 03C1558562		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: JDB	Method: hand auger
Coordinates: 32.305478, -103.802795	Hole Diameter: 4"	Total Depth: 7'

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. 40% correction factor included. NS=Not Screened.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	11,743	644	Y	SS03	0.5	0	CCHE (fill)	(0-1'), CALICHE, well graded, tan, medium grain to gravel size, faint TPH odor, fill.
D	NS	15.1	Y	BH03A	1	1	SP	(1-4') SAND, Fine to medium grained, Poorly Graded, poorly consolidated, Redish Brown, strong TPH odor
D	NS	10.2	Y			2		(2'-5') no odor.
D	NS	8.6	N			3		
D	NS	12.4	N			4		
D	1265	6.5	N			5		
D	1081	143	N	BH03B	6	6		trace H/C odor @ 6'.
D	840	15.8	N	BH03C	7	7		Refusal @7', no odor.

Total Bepth @ 7' BGS

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	Sample Name:SS04/BH04	Date: 11/26/2024
	Site Name: JRU 124 Battery	
	Incident Number: nAPP2428369219	
	Job Number: 03C1558562	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: JDB	Method: hand auger
Coordinates: 32.305768, -103.803036	Hole Diameter: 4"	Total Depth: 8'

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. 40% correction factor included. NS=Not Screened.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	(0-8') Sand, Reddish Brown, fine to medium grained, silty, trace H/C odor, poorly graded, poorly consolidated.
D	9,273	105	Y	SS04	0.5			
D	<162.4	23	v	BH04A	1	1		
D	1478	11.0	Y			2		no odor @ 2'.
D	NS	26	N			3		
D	11743	11	N			4		no odor @ 4'.
D	NS	31.8	N			5		
D	NS	15.4	N			6		
D	<162.4	7.4	N	BH04B	7	7		
D	767.2	60.4	N	BH04C	8	8	CCHE	(@8') ,CALICHE, well graded, tan, medium grain to gravel size, no odor, well consolidated, auger refusal.
						9		

Total Depth @ 8 BGS

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Sample Name: SS05/BH05	Date: 11/26/2024
Site Name: JRU 124 Battery	
Incident Number: nAPP2428369219	
Job Number: 03C1558562	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: JDB	Method: hand auger
Coordinates: 32.305593, -103.802191	Hole Diameter: 4" / Total Depth: 8'

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. 40% correction factor included. NS=Not Screened.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	(0-3') Sand, Redish Brown, fine to medium grained, silty, Strong TPH odor, poorly graded, poorly consolidated.
D	26,073	875	Y	SS05	0.5			
D	NS	78	v			1		
D	NS	57.7	N			2		
D	NS	21.1	N			3	CCHE	(3-8') CALICHE, well graded, tan, medium grain to gravel size, faint TPH odor, well consolidated
D	NS	18.7	N	BH05A	4	4		
D	NS	89.2	N			5		
D	NS	57.4	N			6		
D	NS	109.8	N			7		
D	464	13.0	N	BH05B	8	8		(@ 8') Refusal, no odor

Total Depth @ 8' BGS

ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc.
JRU 124 Battery
Incident Number nAPP2428369219

Photograph: 1 Date: 10/10/2024
Description: Release extent area near pad entrance.
View: Southwest

Photograph: 2 Date: 10/10/2024
Description: Release extent area on pad.
View: South

Photograph: 3 Date: 10/10/2024
Description: Release extent area in pasture.
View: Southwest

Photograph: 4 Date: 11/26/2024
Description: Delineation activities, SS04/BH04.
View: Northwest

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

CARDINAL Laboratories

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

October 31, 2024

TACOMA MORRISSEY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JRU 124 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/29/24 13:30.

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/qa/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.

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

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	10/29/2024	Sampling Date:	10/25/2024
Reported:	10/31/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 01 0.5 (H246568-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.331**	0.200	10/31/2024	ND	2.00	100	2.00	4.73	GC-NC1
Toluene*	**7.67**	0.200	10/31/2024	ND	2.12	106	2.00	5.86	QM-07
Ethylbenzene*	**9.86**	0.200	10/31/2024	ND	2.23	112	2.00	7.05	QM-07
Total Xylenes*	**44.1**	0.600	10/31/2024	ND	6.71	112	6.00	7.38	QM-07
Total BTEX	**62.0**	1.20	10/31/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**13800**	16.0	10/30/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**755**	10.0	10/30/2024	ND	224	112	200	2.75	QM-07
DRO >C10-C28*	**4210**	10.0	10/30/2024	ND	224	112	200	3.89	QM-07
EXT DRO >C28-C36	**778**	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane *193 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *143 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	10/29/2024	Sampling Date:	10/25/2024
Reported:	10/31/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 02 0.5 (H246568-02)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.123**	0.050	10/31/2024	ND	2.00	100	2.00	4.73	GC-NC1
Toluene*	**4.70**	0.050	10/31/2024	ND	2.12	106	2.00	5.86	
Ethylbenzene*	**6.62**	0.050	10/31/2024	ND	2.23	112	2.00	7.05	
Total Xylenes*	**28.6**	0.150	10/31/2024	ND	6.71	112	6.00	7.38	
Total BTEX	**40.1**	0.300	10/31/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *356 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**10000**	16.0	10/30/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1070**	10.0	10/30/2024	ND	224	112	200	2.75	
DRO >C10-C28*	**5780**	10.0	10/30/2024	ND	224	112	200	3.89	
EXT DRO >C28-C36	**1030**	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane *237 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *168 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	10/29/2024	Sampling Date:	10/25/2024
Reported:	10/31/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 03 0.5 (H246568-03)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.121**	0.100	10/31/2024	ND	2.00	100	2.00	4.73	GC-NC1
Toluene*	**5.90**	0.100	10/31/2024	ND	2.12	106	2.00	5.86	
Ethylbenzene*	**8.57**	0.100	10/31/2024	ND	2.23	112	2.00	7.05	
Total Xylenes*	**37.7**	0.300	10/31/2024	ND	6.71	112	6.00	7.38	
Total BTEX	**52.3**	0.600	10/31/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *292 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5280**	16.0	10/30/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1640**	50.0	10/31/2024	ND	224	112	200	2.75	
DRO >C10-C28*	**15900**	50.0	10/31/2024	ND	224	112	200	3.89	
EXT DRO >C28-C36	**3300**	50.0	10/31/2024	ND					

Surrogate: 1-Chlorooctane *391 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *323 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	10/29/2024	Sampling Date:	10/25/2024
Reported:	10/31/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 04 0.5 (H246568-04)

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	10/30/2024	ND	2.00	100	2.00	4.73	
Toluene*	**0.483**	0.050	10/30/2024	ND	2.12	106	2.00	5.86	
Ethylbenzene*	**0.502**	0.050	10/30/2024	ND	2.23	112	2.00	7.05	
Total Xylenes*	**2.40**	0.150	10/30/2024	ND	6.71	112	6.00	7.38	
Total BTEX	**3.39**	0.300	10/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *122 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7200**	16.0	10/30/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**66.4**	10.0	10/30/2024	ND	224	112	200	2.75	
DRO >C10-C28*	**2110**	10.0	10/30/2024	ND	224	112	200	3.89	
EXT DRO >C28-C36	**472**	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane *130 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *157 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	10/29/2024	Sampling Date:	10/25/2024
Reported:	10/31/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 05 0.5 (H246568-05)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/31/2024	ND	2.00	100	2.00	4.73	
Toluene*	**8.91**	0.200	10/31/2024	ND	2.12	106	2.00	5.86	
Ethylbenzene*	**15.8**	0.200	10/31/2024	ND	2.23	112	2.00	7.05	
Total Xylenes*	**70.4**	0.600	10/31/2024	ND	6.71	112	6.00	7.38	
Total BTEX	**95.1**	1.20	10/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *312 %* *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	**21200**	16.0	10/30/2024	ND	416	104	400	3.77	QM-07

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2290**	50.0	10/31/2024	ND	224	112	200	2.75	
DRO >C10-C28*	**11500**	50.0	10/31/2024	ND	224	112	200	3.89	
EXT DRO >C28-C36	**2080**	50.0	10/31/2024	ND					

Surrogate: 1-Chlorooctane *354 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *232 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		BILL TO	
Company Name:	Ensolum, LLC	P.O. #:	
Project Manager:	Tacoma Morrissey	Company:	XTO Energy Inc.
Address:	3122 National Parks Hwy	Attn:	Colton Brown
City:	Carlsbad	State: NM Zip:	88220
Phone #:	337 257-8307	Fax #:	
Project #:	03C1558562	Project Owner:	XTO
Project Name:	JRU 124 Battery	Address:	3104 E. Green St.
Project Location:		City:	Carlsbad
Sampler Name:	Connor Whitman	State: NM Zip:	88220
		Phone #:	
		Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	TPH	CHLORIDE
H246508																		
1	SS01	0.5	G	1								✓		10-25-24	1235			
2	SS02														1240			
3	SS03														1245			
4	SS04														1250			
5	SS05														1255			CL

Relinquished By:	Date: 10 29 24	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1530		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	THillard@ensolum.com, TMorrissey@ensolum.com, kthomason@ensolum.com
	Time:		REMARKS: Cost Center: 1135831001 Incident ID: nAPP2428369219

Delivered By: (Circle One)	Observed Temp. °C 2.3	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard ☐ Rush ☑
Sampler - UPS - Bus - Other:	Corrected Temp. °C 1.7	☑ Yes ☐ Yes ☐ No ☐ No	KD	Thermometer ID #113 #146 Correction Factor 0.5°C -0.6°C

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

2 Day

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

December 04, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JRU 124 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/02/24 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/qa/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.

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

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 01A 1' (H247297-01)

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	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2760**	16.0	12/03/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *84.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 01B 5' (H247297-02)

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	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	12/03/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *97.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 01C 6' (H247297-03)

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	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	GC-NC
Total BTEX	<0.300	0.300	12/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: KV**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	12/03/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	**68.2**	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *95.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 02A 1' (H247297-04)

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	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**944**	16.0	12/03/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	**109**	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *99.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *114 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 02B 4' (H247297-05)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: KV**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5280**	16.0	12/03/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *89.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 03A 1' (H247297-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**384**	16.0	12/03/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *102 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *117 %* *49.1-148*

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

Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 03B 6' (H247297-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *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	**704**	16.0	12/03/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	**43.8**	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *96.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

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CARDINAL Laboratories

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Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 03C 7' (H247297-08)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *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	**624**	16.0	12/03/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *98.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *49.1-148*

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

Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 04A 1' (H247297-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	12/03/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	**16.0**	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *85.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 04B 7' (H247297-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	12/03/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *116 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 04C 8' (H247297-11)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *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	**512**	16.0	12/03/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	**166**	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	**16.7**	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *87.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 05A 4' (H247297-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	**1410**	16.0	12/03/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *96.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/02/2024	Sampling Date:	11/26/2024
Reported:	12/04/2024	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: BH 05B 8' (H247297-13)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *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	**384**	16.0	12/03/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					

Surrogate: 1-Chlorooctane *90.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Ben Belill	P.O. #:
Address: 3122 National Parks Hwy	Company: XTO Energy Inc
City: Carlsbad State: NM Zip: 88220	Attn: Colton Brown
Phone #: 989 854 0852 Fax #:	Address: 3104 E Green St
Project #: 03C1558562 Project Owner: XTO	City: Carlsbad
Project Name: JRU 124 Battery	State: NM Zip: 88220
Project Location: 32.305463, -103.802747	Phone #:
Sampler Name: Joshua Boxley	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides	TPH	BTEX
H247297																		
1	BH01A	1	G	1			X					X		11.26.24	1130	X	X	X
2	BH01B	5													1230			
3	BH01C	6													1245			
4	BH02A	1													1304			
5	BH02B	4													1310			
6	BH03A	1													1548			
7	BH03B	6													1610			
8	BH03C	7													1617			
9	BH04A	1													1340			
10	BH04B	7'	G	1			X					X		11.26.24	1415	X	X	X

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

Relinquished By:	Date: 12-2-24	Received By:	
	Time: 1130		
Relinquished By:	Date:	Received By:	
	Time:		

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

All Results are emailed. Please provide Email address: BBelill @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com

REMARKS:
Incident: nAPP2428369219
Cost Center: ~~1141009100~~ 1080911001

Turnaround Time: Standard ☐ Rush ☑ #140

Thermometer ID #113 Correction Factor -0.5°C

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition Cool	Intact	CHECKED BY: (Initials)	Bacteria (only) Sample Condition Cool	Intact	Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C 1.9	☑ Yes ☐ No	☑ Yes ☐ No		☐ Yes ☐ No	☐ Yes ☐ No	Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Ben Belill	P.O. #:
Address: 3122 National Parks Hwy	Company: XTO Energy Inc
City: Carlsbad State: NM Zip: 88220	Attn: Colton Brown
Phone #: 989 854 0852 Fax #:	Address: 3104 E Green St
Project #: 03C1558562 Project Owner: XTO	City: Carlsbad
Project Name: JRU 124 Battery	State: NM Zip: 88220
Project Location: 32.305463, -103.802747	Phone #:
Sampler Name: Joshua Boxley	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides	TPH	BTEX
H247297																		
11	BH04C	8	G	1			X					X		11.26.24	1422	X	X	X
12	BH05A	4	G	1			X					X		11.26.24	1452	X	X	X
13	BH05B	8	G	1			X					X		11.26.24	1510	X	X	X
~~BH06~~	JOB																	JOB

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

Relinquished By:	Date: 12-2-24	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1130		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	BBelill @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com
	Time:		REMARKS:
Delivered By: (Circle One)	Observed Temp. °C 2.5	Sample Condition: Cool ☑ Yes ☐ No; Intact ☐ Yes ☐ No	Incident: nAPP2428369219
Sampler - UPS - Bus - Other:	Corrected Temp. °C 1.9	CHECKED BY: (Initials)	Cost Center: 1080911001
			Turnaround Time: 48hr Standard ☐ Rush ☑
			Thermometer ID #113 #140
			Correction Factor -0.5°C
			Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

January 02, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JRU 124 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/31/24 12:00.

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

Cardinal Laboratories is 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.

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

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/31/2024
Reported:	01/02/2025	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: SS 06 .5' (H247800-01)

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	12/31/2024	ND	1.86	93.0	2.00	2.06	
Toluene*	<0.050	0.050	12/31/2024	ND	1.98	98.9	2.00	0.0927	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	6.41	107	6.00	0.440	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	12/31/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	205	102	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	205	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane *76.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/31/2024
Reported:	01/02/2025	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: SS 07 .5' (H247800-02)

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	12/31/2024	ND	1.86	93.0	2.00	2.06	
Toluene*	<0.050	0.050	12/31/2024	ND	1.98	98.9	2.00	0.0927	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	6.41	107	6.00	0.440	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	12/31/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	205	102	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	205	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane *91.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.7 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/31/2024
Reported:	01/02/2025	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: SS 08 .5' (H247800-03)

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	12/31/2024	ND	1.86	93.0	2.00	2.06	
Toluene*	<0.050	0.050	12/31/2024	ND	1.98	98.9	2.00	0.0927	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	6.41	107	6.00	0.440	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *119 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	12/31/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	205	102	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	205	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane *81.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *81.5 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/31/2024
Reported:	01/02/2025	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: SS 09 .5' (H247800-04)

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	12/31/2024	ND	1.86	93.0	2.00	2.06	
Toluene*	<0.050	0.050	12/31/2024	ND	1.98	98.9	2.00	0.0927	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	6.41	107	6.00	0.440	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/31/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	205	102	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	205	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane *91.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.0 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/31/2024
Reported:	01/02/2025	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: SS 10 .5' (H247800-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.86	93.0	2.00	2.06	
Toluene*	<0.050	0.050	12/31/2024	ND	1.98	98.9	2.00	0.0927	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	6.41	107	6.00	0.440	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	12/31/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	205	102	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	205	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane *88.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *93.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/31/2024
Reported:	01/02/2025	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: SS 11 .5' (H247800-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.86	93.0	2.00	2.06	
Toluene*	<0.050	0.050	12/31/2024	ND	1.98	98.9	2.00	0.0927	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	6.41	107	6.00	0.440	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	12/31/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	205	102	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	205	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane *76.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/31/2024
Reported:	01/02/2025	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: SS 12 .5' (H247800-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.86	93.0	2.00	2.06	
Toluene*	<0.050	0.050	12/31/2024	ND	1.98	98.9	2.00	0.0927	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	6.41	107	6.00	0.440	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/31/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	205	102	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	205	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane *89.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *92.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/31/2024
Reported:	01/02/2025	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: SS 13 .5' (H247800-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.86	93.0	2.00	2.06	
Toluene*	<0.050	0.050	12/31/2024	ND	1.98	98.9	2.00	0.0927	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	6.41	107	6.00	0.440	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	12/31/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	205	102	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	205	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane *89.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *92.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/31/2024
Reported:	01/02/2025	Sampling Type:	Soil
Project Name:	JRU 124 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558562	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.305463-103.802747		

Sample ID: SS 14 .5' (H247800-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.86	93.0	2.00	2.06	
Toluene*	<0.050	0.050	12/31/2024	ND	1.98	98.9	2.00	0.0927	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	6.41	107	6.00	0.440	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/31/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	205	102	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	205	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane *85.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *86.7 %* *49.1-148*

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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Ensolum, LLC
Project Manager:	Ben Belill
Address:	3122 National Parks Hwy
City:	Carlsbad **State:** NM **Zip:** 88220
Phone #:	989-854-0852 **Fax #:**
Project #:	03C1558562 **Project Owner:** XTO
Project Name:	JRU 124 Battery
Project Location:	32.305463, -103.802747
Sampler Name:	Jesse Dorman

BILL TO

P.O. #:	
Company:	XTO Energy Inc.
Attn:	Colton Brown
Address:	3104 E. Green St.
City:	Carlsbad
State:	NM **Zip:** 88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	TPH	CHLORIDE
H247800																		
1	SS06	~5'	G	1			X					X		12/31/24	840			
2	SS07														842			
3	SS06														844			
4	SS09														847			
5	SS10														924			
6	SS11														1015			
7	SS12														932			
8	SS13														935			
9	SS14														937			

Relinquished By:	**Date:** 12-31-24	**Received By:**	
	Time: 1200		
Relinquished By:	**Date:**	**Received By:**	
	Time:		

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

All Results are emailed. Please provide Email address: Thillard@ensolum.com BBelill@ensolum.com TMorrissey@ensolum.com, kthomason@ensolum.com

REMARKS: Cost Center: 1080911001 Incident ID: nAPP2428369219

Turnaround Time: Standard ☐ Rush ☑ #140 **Thermometer ID** #113 **Correction Factor** -0.5°C

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

Observed Temp. °C **Corrected Temp. °C**

Delivered By: (Circle One)	Observed Temp. °C 4.8	**Sample Condition** Cool ☑Yes ☐No Intact ☑Yes ☐No	**CHECKED BY: (Initials)**
Sampler - UPS - Bus - Other:	Corrected Temp. °C 4.2		

24hr

6 TO 12/31/24

FORM-006 R 3.2 10/07/21

† 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

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 417813
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2428369219**
Incident Name	**NAPP2428369219 JRU 124 BATTERY @ 0**
Incident Type	**Release Other**
Incident Status	**Remediation Plan Received**
Incident Facility	**[fAPP2123052932] JAMES RANCH UNIT 124**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	JRU 124 BATTERY
Date Release Discovered	10/09/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. | Tank (Any) | Crude Oil | Released: 28 BBL | Recovered: 0 BBL | Lost: 28 BBL.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. | Tank (Any) | Produced Water | Released: 863 BBL | Recovered: 859 BBL | Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 417813
	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: Kailee Smith Title: Regulatory Analyst Email: kailee.smith@exxonmobil.com Date: 01/07/2025

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 417813
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 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 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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)	21200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	20840
GRO+DRO (EPA SW-846 Method 8015M)	17540
BTEX (EPA SW-846 Method 8021B or 8260B)	95
Benzene (EPA SW-846 Method 8021B or 8260B)	0.3
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	10/25/2024
On what date will (or did) the final sampling or liner inspection occur	03/03/2025
On what date will (or was) the remediation complete(d)	04/02/2025
What is the estimated surface area (in square feet) that will be reclaimed	12400
What is the estimated volume (in cubic yards) that will be reclaimed	1800
What is the estimated surface area (in square feet) that will be remediated	12400
What is the estimated volume (in cubic yards) that will be remediated	1800
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 417813
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Kailee Smith Title: Regulatory Analyst Email: kailee.smith@exxonmobil.com Date: 01/07/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 417813
	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 (continued)

Operator:	OGRID:
XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	5380
	Action Number: 417813
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**415398**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/03/2025**
What was the (estimated) number of samples that were to be gathered	**18**
What was the sampling surface area in square feet	**3600**

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

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 417813
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved under the following conditions; 1. XTO must complete the excavation and removal of impacted soils until confirmation samples collected from the bottom and sidewalls of the excavation report NMOCD Closure Criteria per 19.15.29.12 NMAC has been achieved. 2. OCD approves the sampling frequency of 400 square feet (ft.2) per one (1) 5-point composite sample (5pcs) for the excavation floor samples and 200 ft.2 for the sidewall samples. 3. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, XTO must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface.	1/23/2025
nvelez	4. XTO has 90-days (April 22, 2025) to submit to OCD its appropriate or final remediation closure report.	1/23/2025