ENSOLUM

August 8, 2024

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

Re: Remediation Work Plan
Poker Lake CVX JV BS 015H
Incident Number nAPP2415233132
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 assessment and delineation activities completed to date and proposes remedial actions to address impacted soil identified at the Poker Lake CVX JV BS 015H (Site). The purpose of the Site assessment and delineation activities was to determine the presence or absence of impacted soil resulting from the release of crude oil and produced water at the Site. The following *Work Plan* proposes to excavate accessible impacted soil.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 23, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.20955°, -103.84871°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 15, 2024, corrosion on a production flow line resulted in the release of 2 barrels (bbls) of crude oil and 6 bbls of produced water onto the surface of the adjacent lease road and pasture. No fluids were able to be recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Notification of Release (NOR) and subsequently submitted an Initial C-141 Application (C-141) on May 31, 2024. The release was assigned Incident Number nAPP2415233132.

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.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. In January 2022, a soil boring permitted by New Mexico Office of the State Engineer (C-4575) was completed approximately 0.09 miles northwest of the Site utilizing hollow stem auger method. Soil boring C-4575 was drilled to a depth of 105 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The temporary well was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs.

The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 500 feet southwest of the Site. There is a seasonal dry wash 3,118 feet north of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- Total 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 pasture area that was impacted by the releases, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

Immediately following the release on May 15, 2024, Ensolum personnel conducted a Site assessment to evaluate the release extent based on visual observations and information provided by XTO. The release extent area was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. On May 17, 2024, Micro-Blaze® was applied to affected and potentially affected plants in the area in and around the release extent to assist in the breakdown of hydrocarbons that may be present and reduce the impacts to the plant life. A total of 200 gallons of a 3 percent (%) solution of freshwater and Micro-Blaze®, which contains a combination of wetting agents, nutrients, and microbes, was applied to the impacted plants to address potentially elevated TPH concentrations. The safety data sheet for Micro-Blaze® is included in Appendix B.

On June 10, 2024, Ensolum personnel conducted a Site assessment to evaluate the release extent. Ten assessment soil samples (SS01 through SS10) were collected at a depth of 0.5 feet bgs in and around of the release extent. The assessment soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Soil assessment sample locations are depicted on Figure 2. A photographic log of the initial Site assessment is included in Appendix C.

On June 26, 2024, Ensolum returned to the Site to oversee delineation activities. Three potholes (SS01, SS09, and BH01) were advanced via heavy equipment and hand auger to investigate the vertical extent of the release in the vicinity of soil samples SS01, SS09, and SS03, respectively. The potholes were advanced to depths ranging from 1-foot to 5 feet bgs. Discrete soil samples were collected from each

pothole at depths ranging from 0.5 feet to 5 feet bgs. All delineation soil samples were field screened by the same methods as stated above. A photographic log of delineation activities is included in Appendix C. Field screening results and observations for all potholes were logged on lithologic/soil sampling logs, which are included as Appendix D. The soil sample locations were mapped utilizing a handheld GPS unit and the delineation soil sample locations 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 (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Methods SM4500.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all assessment soil samples, excluding SS01, SS03, and SS09 at 0.5 feet bgs, indicated they were in compliance with Closure Criteria and reclamation standards, confirming lateral delineation of the release.

Laboratory analytical results for assessment soil sample SS01, collected at 0.5 feet bgs, indicated TPH and chloride concentrations exceeded the reclamation requirement, but was in compliance at 3 feet bgs. Soil assessment sample SS03, collected at 0.5 feet bgs, indicated the chloride concentration met the Closure Criteria but exceeded the reclamation requirement; however, soil assessment sample BH01, collected at 0.5 feet and 1-foot bgs, and located approximately 15 feet to the west of SS03, were in compliance with the Closure Criteria and reclamation requirement. Soil assessment sample SS09, collected at 0.5 feet bgs, indicated the TPH-GRO/TPH-DRO concentration exceeded Closure Criteria and the TPH concentration exceeded the reclamation requirement but was in compliance at 1-foot, 4 feet, and 5 feet bgs.

Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included in Appendix E.

PROPOSED REMEDIATION WORK PLAN

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the releases of crude oil and produced water. Based on laboratory analytical results, TPH-GRO/TPH-DRO, total TPH, and chloride impacted soil exists across an approximate 5,150 square-foot area within the release footprint at depths ranging from 0.5 feet bgs to 3 feet bgs. The lateral extent of the release is defined through laboratory analytical results of soil samples SS02 through SS10, excluding SS03 and SS09.

XTO proposes to complete the following remediation activities:

- Excavation of petroleum hydrocarbon and chloride impacted soil. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with the Closure Criteria as well as reclamation requirements for the top 4 feet, where applicable. The proposed excavation extent is depicted on Figure 3.

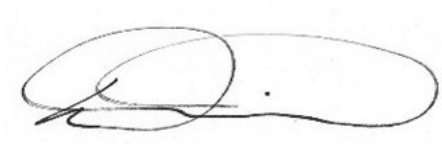
- An estimated 300 cubic yards of impacted soil will be excavated. The excavated soil will be transferred to a New Mexico approved landfill facility for disposal.

- The excavation will be backfilled and recontoured to match pre-existing Site conditions 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 complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD or within 90 days of when XTO production operations is discharged from the Site, whichever comes first.

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

Sincerely,
Ensolum, LLC



Tracy Hillard
Staff Engineer

Daniel Moir, PG (licensed in WY & TX)
Senior Managing Geologist

cc: Amy Ruth, XTO
Amanda Garcia, 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	Safety Data Sheet - Micro-Blaze®
Appendix C	Photographic Log
Appendix D	Lithologic / Soil Sampling Logs
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation

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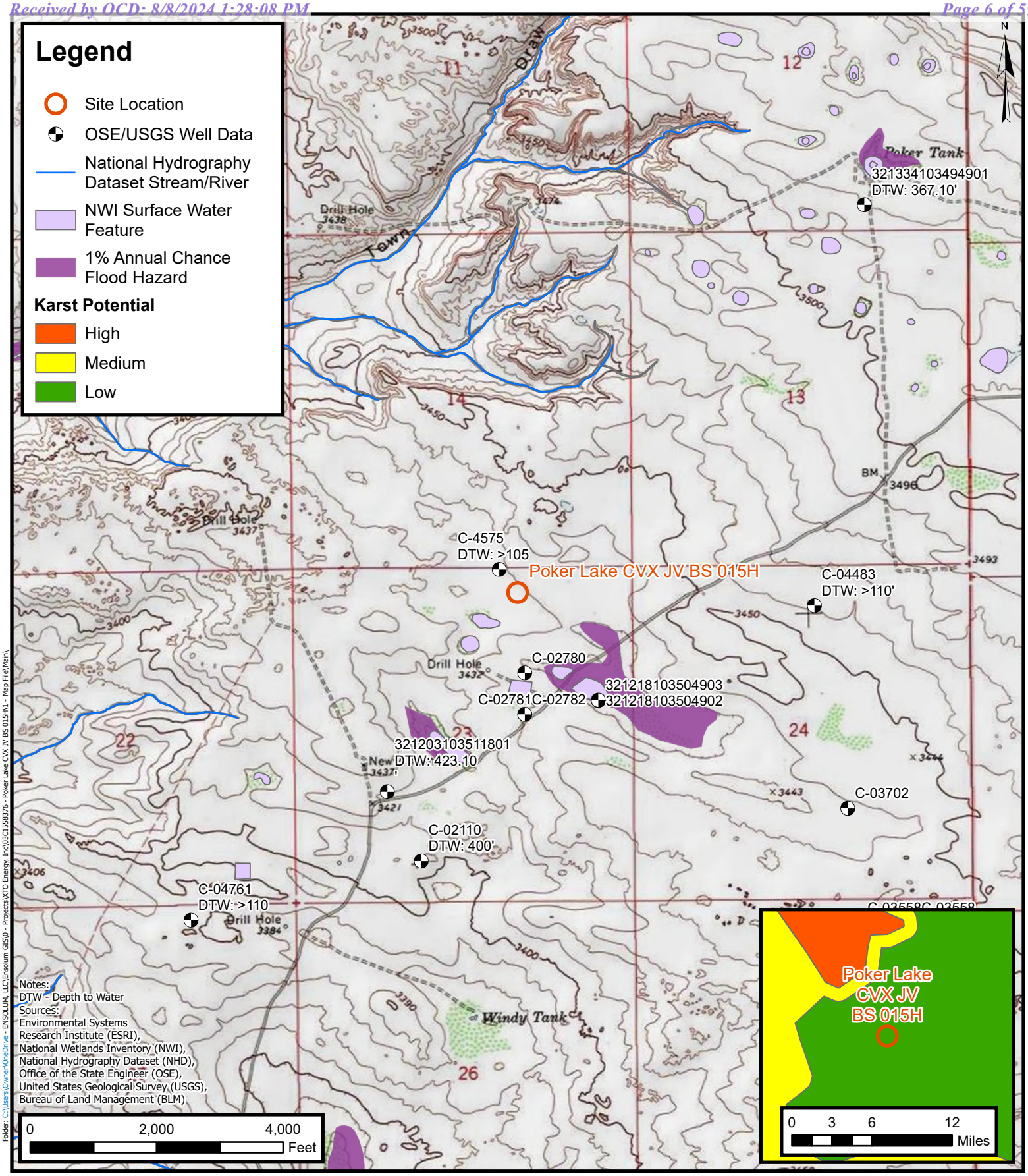
FIGURES



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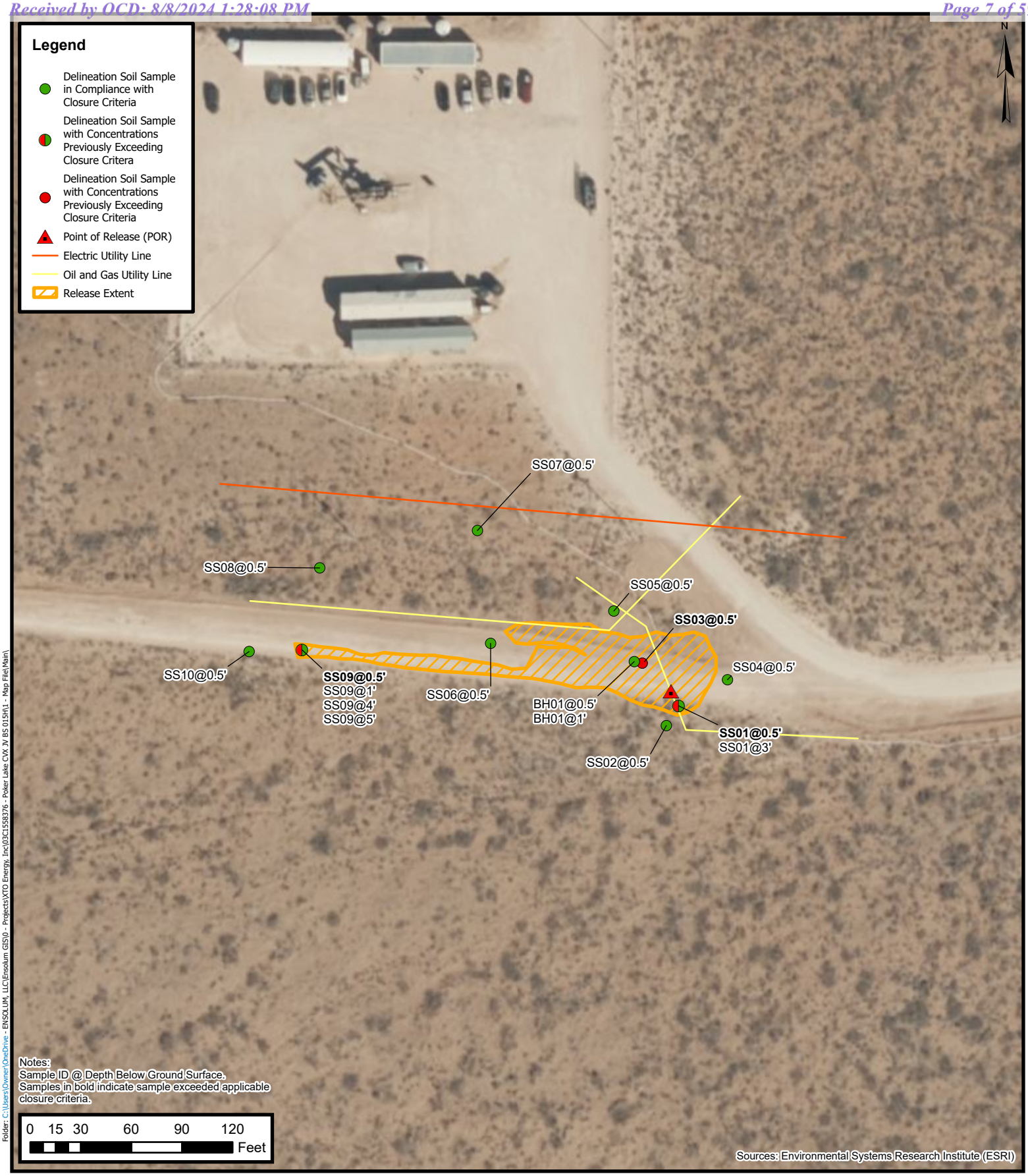
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc
Poker Lake CVX JV BS 015H
Incident Number: nAPP2415233132
Unit B, Section 23, Township 24 South, Range 30 East
Eddy County, New Mexico

FIGURE 1



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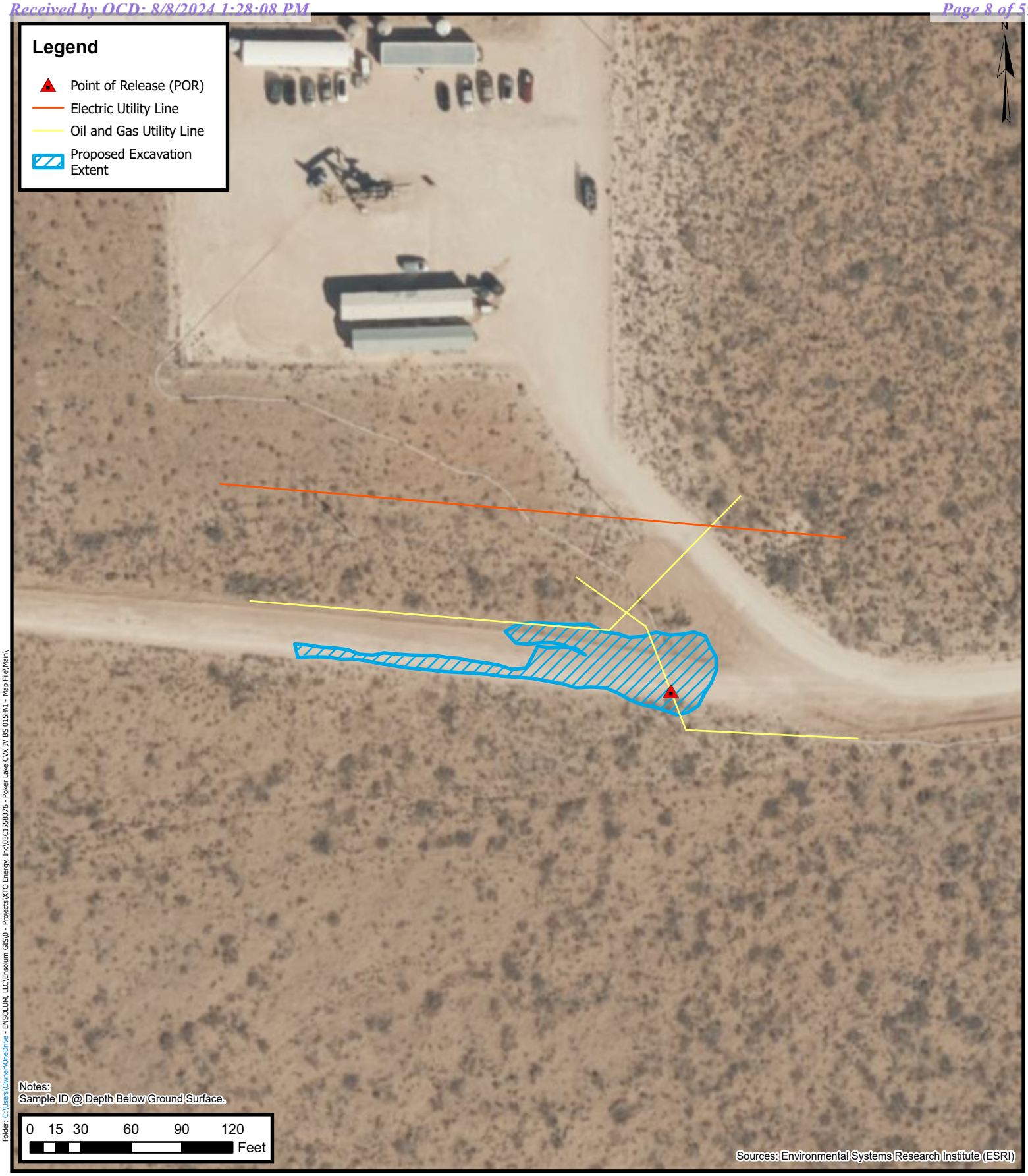
Delineation Soil Sample Locations

XTO Energy, Inc
Poker Lake CVX JV BS 015H
Incident Number: nAPP2415233132
Unit B, Section 23, Township 24 South, Range 30 East
Eddy County, New Mexico

FIGURE 2



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Environmental, Engineering and Hydrogeologic Consultants

Proposed Excavation Extent

XTO Energy, Inc
Poker Lake CVX JV BS 015H
Incident Number: nAPP2415233132
Unit B, Section 23, Township 24 South, Range 30 East
Eddy County, New Mexico

FIGURE 3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Poker Lake CVX JV BS 015H
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
Assessment Soil Samples										
SS01	06/10/2024	0.5	<0.050	<0.300	10.1	689	151	699	**850**	**5,200**
SS01	06/26/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS02	06/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS03	06/10/2024	0.5	<0.050	<0.300	<10.0	42.9	<10.0	43.0	43.0	**1,390**
SS04	06/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS05	06/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS06	06/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS07	06/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS08	06/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS09	06/10/2024	0.5	<0.050	<0.300	100	854	134	1,088	**1,088**	112
SS09	06/26/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS09	06/26/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS09	06/26/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS10	06/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
Delineation Soil Samples										
BH01	06/26/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
BH01	06/26/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

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

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DIT JAN 24 2022 PM3:00

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (BH-01)	n/a	C-4575

WELL OWNER NAME(S)	PHONE (OPTIONAL)
XTO Energy (Kyle Littrell)	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6401 Holiday Hill Dr.	Midland	TX	79707

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	12	38.03	N
	LONGITUDE	103	50	58.70	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

NW NE Sec. 23 T24S R30E, NMPM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
1-4-2022	1-4-2022	temporary well material	105	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	105	±8.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4575	POD NO. 1	TRN NO. 709414
LOCATION 2-1-1 24S-30E-23	WELL TAG ID NO. —	PAGE 1 OF 2

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OSE DII JAN 24 2022 PM 3:00

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	1	1	Caliche, White, Dry	Y ✓N	
1	20	19	Sand, very fine grained, well graded, with caliche, Reddish Brown-Light Brown	Y N	
20	30	20	Caliche, consolidated with silt and some gravel, Off-White, Dry	Y ✓N	
30	50	20	Sand, very fine grained, well graded, with gravel, Light Brown	Y ✓N	
50	75	25	Sand, very fine grained, well graded, with gravel, Reddish Brown, slight moist	Y ✓N	
75	105	30	Sand, very fine grained, poorly graded, Reddish Brown, slight moist	Y ✓N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Cameron Pruitt, Carmelo Trevino

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 1/21/2022

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4573	POD NO. 1	TRN NO. 709414	
LOCATION 2-1-1	24S-30E-23	WELL TAG ID NO.	PAGE 2 OF 2

MON

OSE_Well Record and Log_-forsign

Final Audit Report 2022-01-22

Created:	2022-01-21
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAHFW29aZiQH1D931B0LxyAz3o1wYi88ri

"OSE_Well Record and Log_-forsign" History

OSE DIT JAN 24 2022 PM3:00

Document created by Lucas Middleton (lucas@atkinseng.com)
2022-01-21 - 10:47:34 PM GMT- IP address: 69.21.248.123

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2022-01-21 - 10:48:19 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2022-01-21 - 10:49:13 PM GMT- IP address: 64.90.153.232

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2022-01-22 - 0:16:23 AM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed.
2022-01-22 - 0:16:23 AM GMT

Adobe Sign

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APPENDIX B

Safety Data Sheet - Micro-Blaze®

Micro-Blaze
Microbial Products

Safety Data Sheet
Micro-Blaze® Emergency Liquid Spill Control

1. IDENTIFICATION OF THE SUBSTANCE

Product identifier

Product Name:	Micro-Blaze® Emergency Liquid Spill Control
Product Code:	MBELSC

Recommended use of the chemical and restrictions on use

Recommended Use:	Bioremediation/cleaning
Uses advised against:	Please refer to Product Data Sheet

Details of the supplier of the Safety Data Sheet

Contact Manufacturer:	Verde Environmental, Inc. 9223 Eastex Freeway Houston, TX USA 77093
Information Telephone Number:	1-713-691-6468
Emergency Telephone Number:	1-800-424-9300 (Chemtrec) 24 hours every day

2. HAZARDS IDENTIFICATION

Classification

Classification of the product is in accordance with 29CFR 1910.1200

Acute toxicity – Oral	Category 5
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

Label elements

Emergency Overview

Warning

Hazard statements
May cause an allergic skin reaction
Causes serious eye irritation
May be harmful if swallowed

Appearance: Opaque **Physical State:** Liquid **Odor:** Slight fermentation odor

Micro-Blaze
Microbial Products

Safety Data Sheet
Micro-Blaze® Emergency Liquid Spill Control

Precautionary Statements – Prevention
Wear eye/face protection. Wear protective gloves. Avoid breathing dust/fume/gas/mist/vapors/spray.

Precautionary Statements – Response

Eyes	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Skin	IF ON SKIN: Gently wash with plenty of soap and water
Inhalation	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
Ingestion	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Precautionary Statements – Storage
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F

Precautionary Statements – Disposal
Dispose of unused product and container in accordance with all applicable local and regional requirements

Hazards not otherwise classified (HNOC)
Not applicable

Other information

Health Hazard	1
Fire Hazard	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	Weight - %
Water and Proprietary Viable Spore Forming Cultures	> 80
Proprietary blend of Ethoxylated Alcohols and other Organic materials	3 – 9
Additives	2 - 5

4. FIRST AID MEASURES

First aid measures

Micro-Blaze
Microbial Products

Safety Data Sheet
Micro-Blaze® Emergency Liquid Spill Control

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Skin Contact	Wash off immediately with soap and plenty of water
Inhalation	Move to fresh air
Ingestion	Clean mouth with water and afterwards drink plenty of water

Most important symptoms and effects, both acute and delayed

Main symptoms	No information available

Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Specific Hazards Arising from the Chemical
No information available

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Ensure adequate ventilation

Environmental precautions

Environmental Precautions	It is not anticipated to be hazardous for the environment

Methods and material for containment and cleaning up

Methods for Clean-up	Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

Precautions for safe handling

Handling	Handle in accordance with good industrial hygiene and safety practice

Micro-Blaze
Microbial Products

Safety Data Sheet
Micro-Blaze® Emergency Liquid Spill Control

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place
Packaging Material	There could be many packaging types for the product. The details are given in other Verde Environmental, Inc. documents
Incompatible Materials	Strong acids or alkali compounds and strong oxidizing agents may inactivate biological cultures

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Individual protection measures, such as personal protective equipment

Eye Protection	Avoid contact with eyes
Skin and body protection	No special technical protective measures are necessary
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practices

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Tan, Opaque
Odor	Pleasant (perfume)
Odor Threshold	No information available

Property	**Values**
pH	7.0 – 8.0
Melting/freezing point	freeze at 0°C/32°F
Evaporation rate VALUE	No information available
Flammability (solid, gas)	Not flammable
Burning rate 100mm VALUE	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	No information available
Water solubility	99%
Solubility in other solvents	No information available
Partition Coefficient (n-octanol/water)	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity of product	No information available
Viscosity	No information available

Micro-Blaze
Microbial Products

Safety Data Sheet
Micro-Blaze® Emergency Liquid Spill Control

Explosive properties	No information available
Oxidizing properties	No information available

Other Information

Softening Point	No information available
VOC Content	No information available
Density	No information available

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions

Possibility of Hazardous Reactions
None under normal processing

Conditions to avoid
Extremes of temperature and direct sunlight

Incompatible materials
Strong acids or alkali compounds and strong oxidizing agents may inactivate biological cultures

Hazardous Decomposition Products
No information available

11. Toxicological Information

Information on likely routes of exposure

Inhalation	There is no data available for this product
Eye contact	Avoid contact with eyes. Severely irritating to eyes
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	Ingestion may cause stomach discomfort

Information on toxicological effects

Symptoms	No information available

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

Micro-Blaze
Microbial Products

Safety Data Sheet
Micro-Blaze® Emergency Liquid Spill Control

Sensitization	May cause sensitization of susceptible persons
Mutagenic Effects	No information available
Reproductive Effects	No information available
Specific target organ systemic toxicity	No information available
Aspiration hazard	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Dahnia, acute	Algae, acute	Fish, acute
Proprietary blend of Ethoxylated Alcohols	EC50 (48 hours): 5-10 mg/l	EC50 (72 hours): 10- 100 mg/l	LC50: 1-10 mg/l

Persistence/Degradability
The organic components of the product are biodegradable.

Bioaccumulation/Accumulation

Chemical Name	Persistance and degradability	log Pow
Proprietary blend of Ethoxylated Alcohols	Readily biodegradable (OECD TG 301B	<0

Other adverse effects
No known effect

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method	Dispose of contents/container in accordance with local regulation
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

Transport regulations:	No dangerous goods according to transport regulations No special precautions required
Transport hazard class(es):	N/A
Packing group:	N/A
Environmental hazards:	N/A

Micro-Blaze
Microbial Products

Safety Data Sheet
Micro-Blaze® Emergency Liquid Spill Control

15. REGULATORY INFORMATION

International Inventories
Legend:
TSCA – United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

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

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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

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

State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals

State Right-to-Know
U.S. EPA Label Information
EPA Pesticide Registration Number Not Applicable

Canada

WHMIS Statement This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Micro-Blaze
Microbial Products

Safety Data Sheet
Micro-Blaze® Emergency Liquid Spill Control

16. OTHER INFORMATION

Revision date: 01.22.2021
Revision Summary

No information available

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Furthermore, as the conditions of use are beyond the control of Verde Environmental, Inc., it is the responsibility of the customer to determine the conditions of safe use of this preparation.

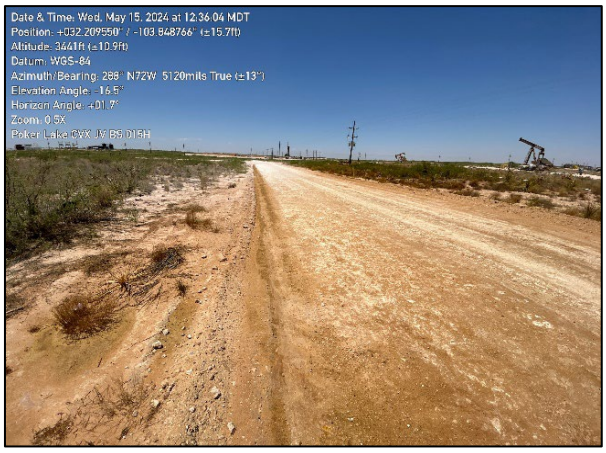
ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc
Poker Lake CVX JV BS 015H
nAPP2415233132



Photograph: 1 Date: 5/15/2024
Description: Release extent
View: West

Photograph: 2 Date: 6/10/2024
Description: Site assessment activities
View: Northeast

Photograph: 3 Date: 6/26/2024
Description: Delineation activities with backhoe
View: West

Photograph: 4 Date: 6/26/2024
Description: Delineation activities with hand auger
View: Southwest

ENSOLUM

APPENDIX D

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: SS01	Date: 6/26/2024
	Site Name: Poker Lake CVX JV BS 015H	
	Incident Number: nAPP2415233132	
	Job Number: 03C1558376	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: TH/JB	Method: Hand Auger
Coordinates: 32.209521, -103.848724	Hole Diameter: 4"	Total Depth: 3'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP-SC	(0-3') SAND, dark brown, some silt, trace clay odor, poorly graded
D	8607	87.9	Y	SS01	0.5			
D	2195	101	Y		1	1		
D	884.8	25.8	Y		2	2		(@2') trace silt
D	<173	40.3	N	SS01	3	3		(@3') no silt
							CCHE	(@3.5') CALICHE, hand auger refusal

Total depth @ 3.5' feet bgs

ENSOLUM

Sample Name: SS09	Date: 6/26/2024	
Site Name: Poker Lake CVX JV BS 015H		
Incident Number: nAPP2415233132		
Job Number: 03C1558376		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: TH/JB	Method: Backhoe
Coordinates: 32.209619, -103.849443	Hole Diameter: 24"	Total Depth: 5'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-1') CALICHE, beige, poorly graded, odor
D	235	398	N	SS09	0.5			
D	173.6	26.6	N	SS09	1	1	SP-SC	(1-2') SAND, dark brown, little silt, trace clay odor, poorly graded
D	<173.6	18.6	N		2	2		(@2') some silt, little clay
D	<173.6	9.6	N		3	3	CCHE	(3-5') CALICHE, beige, some sand, poorly graded, odor, little clay
D	<173.6	5.2	N	SS09	4	4		(@4') no clay, no odor
D	<173.6	2.7	N	SS09	5	5		

Total depth @ 5 feet bgs

ENSOLUM

	Sample Name: BH01	Date: 6/26/2024
	Site Name: Poker Lake CVX JV BS 015H	
	Incident Number: nAPP2415233132	
	Job Number: 03C1558376	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: TH/JB	Method: Backhoe
Coordinates: 32.209594, -103.848812	Hole Diameter: 24"	Total Depth: 1'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-0.5') CALICHE, beige, poorly graded, odor
D	<173.6	1.3	N	BH01	0.5		SP-SC	(0.5-1') SAND, dark brown, little silt, slight odor, poorly graded
D	<173.6	1.7	N	BH01	1	1		(@1') no odor
						Total depth @ 1 feet bgs		

ENSOLUM

APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation

CARDINAL Laboratories

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

June 17, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU CVX JV BS 015H

Enclosed are the results of analyses for samples received by the laboratory on 06/11/24 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/11/2024	Sampling Date:	06/10/2024
Reported:	06/17/2024	Sampling Type:	Soil
Project Name:	PLU CVX JV BS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 01 0.5' (H243377-01)

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	06/13/2024	ND	2.04	102	2.00	2.32	
Toluene*	<0.050	0.050	06/13/2024	ND	1.99	99.4	2.00	0.424	
Ethylbenzene*	<0.050	0.050	06/13/2024	ND	1.97	98.6	2.00	0.667	
Total Xylenes*	<0.150	0.150	06/13/2024	ND	5.78	96.3	6.00	0.287	
Total BTEX	<0.300	0.300	06/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *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	**5200**	16.0	06/14/2024	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*	**10.1**	10.0	06/13/2024	ND	190	95.0	200	6.94	
DRO >C10-C28*	**689**	10.0	06/13/2024	ND	186	92.8	200	1.63	
EXT DRO >C28-C36	**151**	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane *90.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.5 %* *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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	06/11/2024	Sampling Date:	06/10/2024
Reported:	06/17/2024	Sampling Type:	Soil
Project Name:	PLU CVX JV BS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 02 0.5' (H243377-02)

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	06/13/2024	ND	2.04	102	2.00	2.32	
Toluene*	<0.050	0.050	06/13/2024	ND	1.99	99.4	2.00	0.424	
Ethylbenzene*	<0.050	0.050	06/13/2024	ND	1.97	98.6	2.00	0.667	
Total Xylenes*	<0.150	0.150	06/13/2024	ND	5.78	96.3	6.00	0.287	
Total BTEX	<0.300	0.300	06/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *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	**48.0**	16.0	06/14/2024	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	06/13/2024	ND	175	87.6	200	3.93	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	184	91.9	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane *80.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *76.4 %* *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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	06/11/2024	Sampling Date:	06/10/2024
Reported:	06/17/2024	Sampling Type:	Soil
Project Name:	PLU CVX JV BS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 03 0.5' (H243377-03)

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	06/13/2024	ND	2.04	102	2.00	2.32	
Toluene*	<0.050	0.050	06/13/2024	ND	1.99	99.4	2.00	0.424	
Ethylbenzene*	<0.050	0.050	06/13/2024	ND	1.97	98.6	2.00	0.667	
Total Xylenes*	<0.150	0.150	06/13/2024	ND	5.78	96.3	6.00	0.287	
Total BTEX	<0.300	0.300	06/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	**1390**	16.0	06/14/2024	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	06/13/2024	ND	175	87.6	200	3.93	
DRO >C10-C28*	**42.9**	10.0	06/13/2024	ND	184	91.9	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane *52.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *49.7 %* *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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	06/11/2024	Sampling Date:	06/10/2024
Reported:	06/17/2024	Sampling Type:	Soil
Project Name:	PLU CVX JV BS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 04 0.5' (H243377-04)

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	06/13/2024	ND	2.04	102	2.00	2.32	
Toluene*	<0.050	0.050	06/13/2024	ND	1.99	99.4	2.00	0.424	
Ethylbenzene*	<0.050	0.050	06/13/2024	ND	1.97	98.6	2.00	0.667	
Total Xylenes*	<0.150	0.150	06/13/2024	ND	5.78	96.3	6.00	0.287	
Total BTEX	<0.300	0.300	06/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *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	**128**	16.0	06/14/2024	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	06/13/2024	ND	175	87.6	200	3.93	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	184	91.9	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane *56.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *52.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

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

Received:	06/11/2024	Sampling Date:	06/10/2024
Reported:	06/17/2024	Sampling Type:	Soil
Project Name:	PLU CVX JV BS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 05 0.5' (H243377-05)

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	06/14/2024	ND	2.11	105	2.00	1.59	
Toluene*	<0.050	0.050	06/14/2024	ND	2.26	113	2.00	1.56	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.27	113	2.00	1.55	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	6.98	116	6.00	1.81	
Total BTEX	<0.300	0.300	06/14/2024	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	**32.0**	16.0	06/14/2024	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	06/13/2024	ND	175	87.6	200	3.93	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	184	91.9	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane *72.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *67.3 %* *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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	06/11/2024	Sampling Date:	06/10/2024
Reported:	06/17/2024	Sampling Type:	Soil
Project Name:	PLU CVX JV BS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 06 0.5' (H243377-06)

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	06/14/2024	ND	2.11	105	2.00	1.59	
Toluene*	<0.050	0.050	06/14/2024	ND	2.26	113	2.00	1.56	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.27	113	2.00	1.55	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	6.98	116	6.00	1.81	
Total BTEX	<0.300	0.300	06/14/2024	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	06/14/2024	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	06/14/2024	ND	175	87.6	200	3.93	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	184	91.9	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane *86.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.2 %* *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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	06/11/2024	Sampling Date:	06/10/2024
Reported:	06/17/2024	Sampling Type:	Soil
Project Name:	PLU CVX JV BS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 07 0.5' (H243377-07)

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	06/14/2024	ND	2.11	105	2.00	1.59	
Toluene*	<0.050	0.050	06/14/2024	ND	2.26	113	2.00	1.56	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.27	113	2.00	1.55	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	6.98	116	6.00	1.81	
Total BTEX	<0.300	0.300	06/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *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	**48.0**	16.0	06/14/2024	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	06/13/2024	ND	175	87.6	200	3.93	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	184	91.9	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane *69.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *66.4 %* *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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	06/11/2024	Sampling Date:	06/10/2024
Reported:	06/17/2024	Sampling Type:	Soil
Project Name:	PLU CVX JV BS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 08 0.5' (H243377-08)

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	06/14/2024	ND	2.11	105	2.00	1.59	
Toluene*	<0.050	0.050	06/14/2024	ND	2.26	113	2.00	1.56	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.27	113	2.00	1.55	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	6.98	116	6.00	1.81	
Total BTEX	<0.300	0.300	06/14/2024	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	**32.0**	16.0	06/14/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2024	ND	175	87.6	200	3.93	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	184	91.9	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane *70.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *67.1 %* *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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	06/11/2024	Sampling Date:	06/10/2024
Reported:	06/17/2024	Sampling Type:	Soil
Project Name:	PLU CVX JV BS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 09 0.5' (H243377-09)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2024	ND	2.11	105	2.00	1.59	
Toluene*	**0.154**	0.050	06/14/2024	ND	2.26	113	2.00	1.56	
Ethylbenzene*	**0.467**	0.050	06/14/2024	ND	2.27	113	2.00	1.55	
Total Xylenes*	**3.54**	0.150	06/14/2024	ND	6.98	116	6.00	1.81	GC-NC1
Total BTEX	**4.16**	0.300	06/14/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *157 %* *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	**112**	16.0	06/14/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**100**	10.0	06/13/2024	ND	175	87.6	200	3.93	
DRO >C10-C28*	**854**	10.0	06/13/2024	ND	184	91.9	200	1.48	
EXT DRO >C28-C36	**134**	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane *83.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *79.0 %* *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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	06/11/2024	Sampling Date:	06/10/2024
Reported:	06/17/2024	Sampling Type:	Soil
Project Name:	PLU CVX JV BS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO		

Sample ID: SS 10 0.5' (H243377-10)

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	06/14/2024	ND	2.11	105	2.00	1.59	
Toluene*	<0.050	0.050	06/14/2024	ND	2.26	113	2.00	1.56	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.27	113	2.00	1.55	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	6.98	116	6.00	1.81	
Total BTEX	<0.300	0.300	06/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *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	**112**	16.0	06/14/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2024	ND	175	87.6	200	3.93	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	184	91.9	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane *76.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *73.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Tracy Hillard	P.O. #:
Address: 3122 National Parks Hwy	Company: XTO Energy Inc.
City: Carlsbad State: NM Zip: 88220	Attn: Amy Ruth
Phone #: 3372578307 Fax #:	Address: 3104 E Green St
Project #: 03C1558376 Project Owner: XTO	City: Carlsbad
Project Name: PLU CVX JV BS 015H	State: NM Zip:88220
Project Location:	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	ANALYSIS REQUEST: TPH 8015	BTEX 8021	Chloride 4500
H247337)												✓						
1	SS01	0.5'	G	1			X					X		6/10/24	1003	X	X	X
2	SS02														1007			
3	SS03														1025			
4	SS04														1045			
5	SS05														1058			
6	SS06														1110			
7	SS07														1053			
8	SS08														1118			
9	SS09														1130			
10	SS 10	0.5	G	1			X					X		6/10/24	1135	X	X	X

Relinquished By:	Date: 6.11.24	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1315		All Results are emailed. Please provide Email address: thillard@ensolum.com, TMorrissey@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS: Cost Center: 1140041001 Incident nAPP2415233132
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 0.7°C Corrected Temp. °C	Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: 5 day Standard ☑ Rush ☐ Thermometer ID #113 Correction Factor -0.5°C 14D 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

July 03, 2024

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU CVX JVBS 015H

Enclosed are the results of analyses for samples received by the laboratory on 06/27/24 12:30.

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, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	PLU CVX JVBS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.309530-103.848710		

Sample ID: SS 09 1' (H243851-01)

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	07/02/2024	ND	1.93	96.5	2.00	1.88	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07	
Total BTEX	<0.300	0.300	07/02/2024	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	07/02/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	184	92.1	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane *115 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *107 %* *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, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	PLU CVX JVBS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.309530-103.848710		

Sample ID: SS 09 4' (H243851-02)

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	07/02/2024	ND	1.93	96.5	2.00	1.88	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/02/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	184	92.1	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane *81.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *75.5 %* *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, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	PLU CVX JVBS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.309530-103.848710		

Sample ID: SS 09 5' (H243851-03)

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	07/02/2024	ND	2.12	106	2.00	9.13	
Toluene*	<0.050	0.050	07/02/2024	ND	2.30	115	2.00	11.2	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.43	121	2.00	11.5	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.30	122	6.00	12.3	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/02/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	184	92.1	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane *97.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *89.5 %* *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, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	PLU CVX JVBS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.309530-103.848710		

Sample ID: BH 01 0.5' (H243851-04)

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	07/02/2024	ND	2.12	106	2.00	9.13	
Toluene*	<0.050	0.050	07/02/2024	ND	2.30	115	2.00	11.2	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.43	121	2.00	11.5	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.30	122	6.00	12.3	
Total BTEX	<0.300	0.300	07/02/2024	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	07/02/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	184	92.1	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane *104 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.3 %* *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, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	PLU CVX JVBS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.309530-103.848710		

Sample ID: BH 01 1' (H243851-05)

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	07/02/2024	ND	2.12	106	2.00	9.13	
Toluene*	<0.050	0.050	07/02/2024	ND	2.30	115	2.00	11.2	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.43	121	2.00	11.5	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.30	122	6.00	12.3	
Total BTEX	<0.300	0.300	07/02/2024	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/02/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	184	92.1	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

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

Surrogate: 1-Chlorooctadecane *95.3 %* *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, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	PLU CVX JVBS 015H	Sampling Condition:	Cool & Intact
Project Number:	03C1558376	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.309530-103.848710		

Sample ID: SS 01 3' (H243851-06)

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	07/02/2024	ND	2.12	106	2.00	9.13	
Toluene*	<0.050	0.050	07/02/2024	ND	2.30	115	2.00	11.2	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.43	121	2.00	11.5	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.30	122	6.00	12.3	
Total BTEX	<0.300	0.300	07/02/2024	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/02/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	184	92.1	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

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

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Company Name: Ensolum, LLC
Project Manager: Tracy Hillard
Address: 601 N Marienfeld Street, Suite 400
City: Midland State: TX Zip: 79701
Phone #: 575-937-3906 Fax #:
Project #: 03C1558376 Project Owner: XTO
Project Name: PLU CUX 5 UBS 015H
Project Location: 32.209550, -103.848210
Sampler Name: Tracy Hillard

BILL TO
P.O. #:
Company: XTO Energy
Attn: Amy Ruth
Address: 3104 Greene
City: Carlsbad
State: NM Zip: 88220
Phone #: 432-664-0571
Fax #:

ANALYSIS REQUEST

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	TPH 8015	BTEX 8021	Chloride 4500
H24385																		
1	SS09	1	G	1			X					X		6.26.24	0940	X	X	X
2	SS09	4													1000			
3	SS09	5													1012			
4	BH01	0.5													1020			
5	BH01	1													1023			
6	SS01	3													1046			

TAT

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: 6.27.24 Time: 1230 Received By:
Relinquished By: Date: Time: Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com

REMARKS:
nAPP2415233132
Cost center 114004 1001

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C
Corrected Temp. °C 3.8

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No
CHECKED BY: (Initials) AD

Turnaround Time: Standard ☑ Rush ☐
AP 6.27.24
Thermometer ID #113
Correction Factor -0.5°C #140

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

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Santa Fe, NM 87505

QUESTIONS

Action 372035

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 372035
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2415233132**
Incident Name	**NAPP2415233132 POKER LAKE CVX JV BS 015H @ 0**
Incident Type	**Release Other**
Incident Status	**Remediation Plan Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	POKER LAKE CVX JV BS 015H
Date Release Discovered	05/15/2024
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: Corrosion | Flow Line - Production | Crude Oil | Released: 2 BBL | Recovered: 0 BBL | Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Produced Water | Released: 6 BBL | Recovered: 0 BBL | Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 372035
	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	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 08/08/2024

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 372035
	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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (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)	5200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1088
GRO+DRO (EPA SW-846 Method 8015M)	1088
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	05/15/2024
On what date will (or did) the final sampling or liner inspection occur	10/26/2024
On what date will (or was) the remediation complete(d)	10/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	5150
What is the estimated volume (in cubic yards) that will be reclaimed	300
What is the estimated surface area (in square feet) that will be remediated	5150
What is the estimated volume (in cubic yards) that will be remediated	300
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: 372035
	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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 08/08/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 372035
	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: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 372035
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**356241**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**06/26/2024**
What was the (estimated) number of samples that were to be gathered	**30**
What was the sampling surface area in square feet	**6000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 372035

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 372035
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. Be aware that the OCD is currently requesting operators to obtain approval prior to the application of chemical amendments. Remediation closure report is due to the OCD by 11/7/2024.	8/9/2024