ENSOLUM

February 20, 2025

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

Re: Closure Request
Wildcat Compressor Station
Incident Number nAPP2423527011
Eddy County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Wildcat Compressor Station (Site). The purpose of the assessment, excavation, and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a glycol release at the Site. Based on the field observations, field screening activities, and confirmation soil sample laboratory analytical results, XTO is submitting this *Closure Request* describing site assessment and composite soil sampling activities that have occurred and requesting no further action for Incident Number nAPP2423527011.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit I, Section 21, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.2020189°, -103.7791046°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On August 21, 2024, a glycol line disconnected from the contactor meter. Approximately 7 barrels (bbls) of triethylene glycol (TEG) were released to the pad surface. There were no fluids recovered. XTO reported the release via Notification of Release (NOR) and Initial C-141 Application (C-141) to the New Mexico Oil Conservation Division (NMOCD) on August 22, 2024. The release was assigned Incident Number nAPP2423527011.

TEG is utilized in oil and gas operations for many purposes. The source of the release was a glycol supply line connected to a contactor meter which assists in absorbing water from produced natural gas. Due to the TEG line being upstream from the meter, it had not come into contact with any produced fluids and therefore only TEG was released. The SDS is provided in Appendix A.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. In August 2023, a soil boring (C-4760) was drilled 0.5 miles south of the Site utilizing a truck-mounted air rotary rig. Soil boring C-4760 was drilled to a depth of 108 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activites. The borehole 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 108 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Log is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 14,300 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 not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the Site Characterization results above the following NMOCD Table 1 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

SITE ASSESSMENT ACTIVITIES

On September 3, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Four delineation soil samples were collected around the release from a depth of 0.5 feet bgs. Three 5-point composite confirmation soil samples, CS01 through CS03, were collected within the release extent to assess for the presence or absence of impacted soil. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix C.

The delineation soil samples (SS01 through SS04) and composite confirmation soil samples (CS01 through CS03) were placed directly into a pre-cleaned glass jar, 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 the following contamintants 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 Standards Method SM4500.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS04 and confirmation soil samples CS01 through CS03 indicated that all COC concentrations were compliant with the Site Closure Criteria. In addition, laboratory analytical results for the delineation soil samples collected outside of the release extent were compliant with the strictest Closure Criteria and successfully defined the lateral extent of the release.

SOIL SAMPLING AND EXCAVATION ACTIVITIES

To further characterize the release, XTO reviewed the EPA Regional Screening Levels (RSL), published in November 2024 to establish remediation standards for TEG. On December 3, 2024, XTO proposed to apply the EPA Resident Soil to Groundwater RSL for TEG, established as 8.8 mg/kg. The RSL was approved by the NMOCD on December 4, 2024. On December 6, 2024, Ensolum personnel returned to the site to collect confirmation soil samples from the release extent to evaluate TEG concentrations. Three 5-point confirmation soil samples, CS01 through CS03, were recollected from a depth of 0.5 feet bgs in the vicinity of the previously collected samples. The confirmation soil samples were collected and handled by the above-described methods and transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of TEG following EPA method SW846 8015D.

Laboratory analytical results for confirmation soil samples CS01 and CS03 indicated TEG concentrations were compliant with the approved TEG RSL. Confirmation soil sample CS02 exceeded the approved TEG RSL. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D. Based on the laboratory analytical results, excavation of the TEG-impacted soil was warranted.

Between January 7, 2025 and February 3, 2025, Ensolum personnel returned to the Site to oversee excavation activities in vicinity of confirmation soil sample CS02 utilizing hand shovels and transport vehicles. Following removal of soil, Ensolum personnel collected 5-point confirmation soil sample, CS02A, from the floor of the excavation from a depth of 1-foot bgs and SW01 from the sidewall of the excavation from ground surface to 1-foot bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above and submitted to Cardinal. Photographic documentation was collected during the Site assessment and a Photographic Log is included in Appendix C.

The final excavation extent measured approximately 86 square feet. A total of approximately 3 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicate all final confirmation soil samples were in compliance with the approved TEG RSL. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment activities were conducted to assess the presence or absence of impacted soil resulting from the August 21, 2024, TEG release. Laboratory analytical results for all final confirmation soil samples indicated all COCs, including TEG, were in compliance with Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Approximately 3 cubic yards of waste-containing soil remain in place immediately adjacent to active production equipment and will be removed during any major facility reconstruction or final abandonment and reclamation of the pad surface. XTO respectfully requests closure and no further action for Incident Number nAPP2423527011.

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
Project Engineer

Tacoma Morrissey, M.S.
Associate Principal

cc: Dale Woodall, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Safety Data Sheet – Triethylene glycol
Appendix B	Referenced Well Records
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Correspondence

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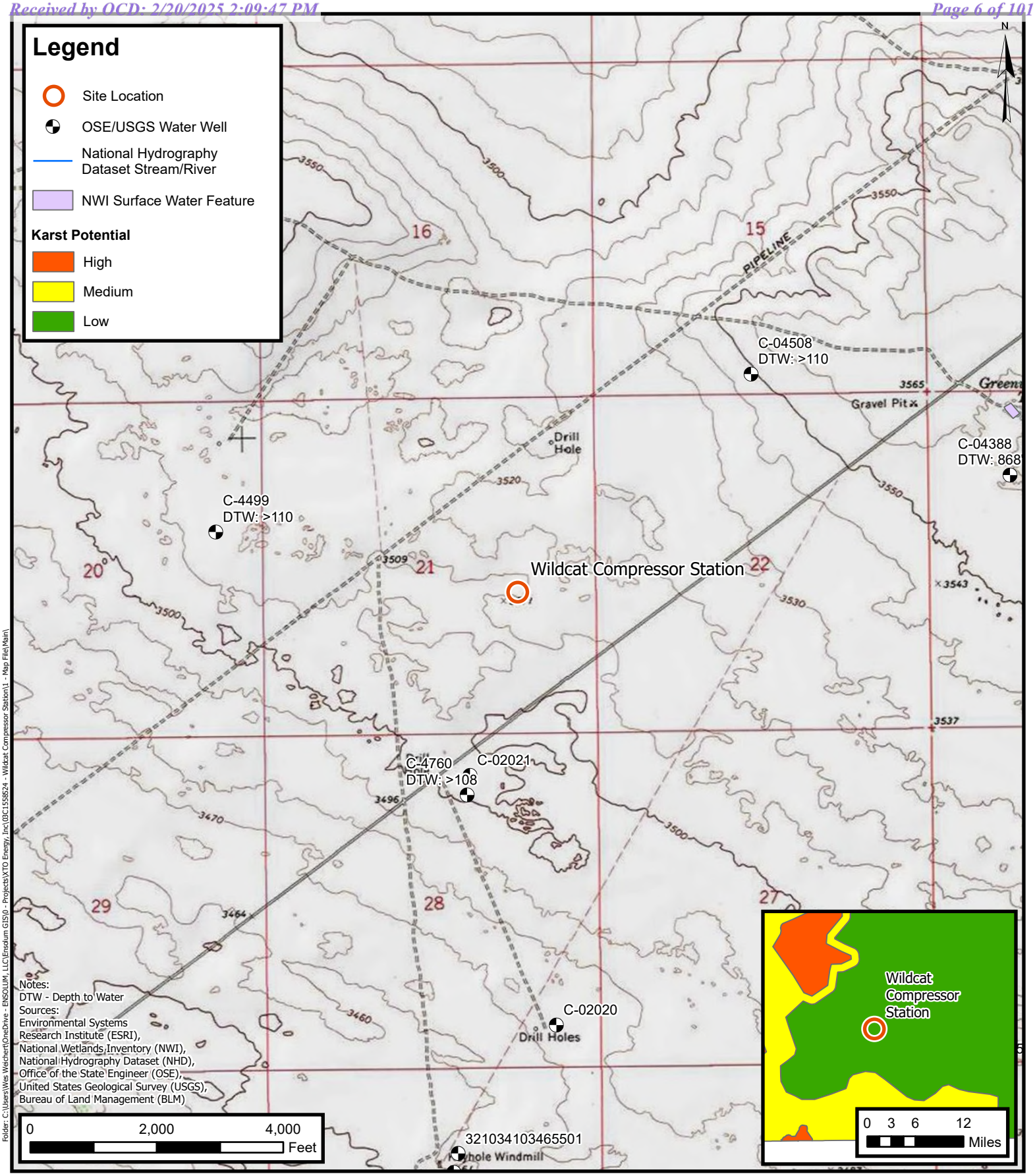
FIGURES



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc
Wildcat Compressor Station
Incident Number: NAPP2423527011
Unit I, Sec 21, T24S, R31E
Eddy Co, New Mexico, United States

FIGURE 1

Folder: C:\Users\Wes Welchert\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558524 - Wildcat Compressor Station\1 - Map File\Main\

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Environmental, Engineering and Hydrogeologic Consultants

Confirmation Soil Sample Locations

XTO Energy, Inc
Wildcat Compressor Station
Incident Number: NAPP2423527011
Unit I, Sec 21, T24S, R31E
Eddy Co, New Mexico, United States

FIGURE 2

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Wildcat Compressor Station
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)	Triethlyene Glycol (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**10,000**	**NE**
EPA Resident Soil to Groundwater RSL			**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**8.8**
Assessment Soil Samples											
SS01	09/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0	-
SS02	09/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0	-
SS03	09/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0	-
SS04	09/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0	-
Confirmation Soil Samples											
CS01	09/03/2024	0.3	<0.050	<0.300	<10.0	332	313	332	645	64.0	<1.24
~~CS02~~	~~09/03/2024~~	~~0.3~~	~~<0.050~~	~~<0.300~~	~~<10.0~~	~~<10.0~~	~~<10.0~~	~~<10.0~~	~~<10.0~~	~~64.0~~	~~**1,500**~~
CS02A	01/07/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160	<1.23
CS03	09/03/2024	0.3	<0.050	<0.300	<10.0	43.0	35.7	43	78.7	32.0	<1.23
SW01	02/03/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112	<1.23

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.

EPA: Environmental Protection Agency

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

RSL: Regional Screening Levels

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APPENDIX A

Safety Data Sheet - Triethylene glycol

ThermoFisher SCIENTIFIC

SAFETY DATA SHEET

Creation Date 17-Nov-2009 **Revision Date** 24-Dec-2021 **Revision Number** 4

1. Identification

Product Name **Triethylene glycol**

Cat No. : **T346-4**

CAS No 112-27-6
Synonyms TEG; Trigen; Triglycol (Laboratory)

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification
Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC)
None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Triethylene glycol	112-27-6	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms and effects None reasonably foreseeable.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point 165 °C / 329 °F

Method - No information available

Autoignition Temperature 371 °C / 699.8 °F

Explosion Limits
- **Upper** 9.2 vol %
- **Lower** 0.9 vol %
- **Sensitivity to Mechanical Impact** No information available
- **Sensitivity to Static Discharge** No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).

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.

NFPA

Health	Flammability	Instability	Physical hazards
1	1	1	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation.

Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal.

Up

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Incompatible Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures None under normal use conditions.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Light yellow
Odor	Slight
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-7 °C / 19.4 °F
Boiling Point/Range	285 °C / 545 °F
Flash Point	165 °C / 329 °F
Evaporation Rate	< 0.001
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	9.2 vol %
Lower	0.9 vol %
Vapor Pressure	<0.01 mbar @ 20 °C
Vapor Density	5.17
Specific Gravity	1.120
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	371 °C / 699.8 °F
Decomposition Temperature	No information available
Viscosity	48 mPa.s @ 20 °C
Molecular Formula	C6 H14 O4
Molecular Weight	150.17

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Hygroscopic.

Conditions to Avoid Incompatible products. Excess heat. Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Triethylene glycol	LD50 = 17 g/kg (Rat)	LD50 > 20 mL/kg (Rabbit)	LC50 > 5.2 mg/L (Rat) 4 h

Toxicologically Synergistic Products No information available

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

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Triethylene glycol	112-27-6	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Triethylene glycol	Not listed	LC50: = 61000 mg/L, 96h flow-through (Lepomis	EC50 = 850 mg/L 5 min	EC50: 42426 mg/L/48h

		macrochirus) LC50: = 10000 mg/L, 96h static (Lepomis macrochirus) LC50: 56200 - 63700 mg/L, 96h flow-through (Pimephales promelas)		

Persistence and Degradability Persistence is unlikely

Bioaccumulation/ Accumulation No information available.

Mobility . Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Triethylene glycol	-1.98

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Triethylene glycol	112-27-6	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Triethylene glycol	112-27-6	X	-	203-953-2	X	X	X	X	X	KE-13201

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration: Not applicable

CERCLA: Not applicable

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

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Triethylene glycol	-	-	X	-	X

U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security: This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade: Slight risk, Grade 1

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Triethylene glycol	112-27-6	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Triethylene glycol	112-27-6	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 17-Nov-2009
Revision Date 24-Dec-2021
Print Date 24-Dec-2021
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage,

transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS

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APPENDIX B

Referenced Well Records

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Sample Name: C-4760	Date: 8/1/2023	
Site Name: PLU 411		
Incident Number: nAPP2219646774		
Job Number: 03C1558096		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MR	Method: Air Rotary
Coordinates: 32.192855, -103.780646	Hole Diameter: 5"	Total Depth: 108' bgs
Comments: No field screenings conducted.		

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0'-20' CALICHE with some sand, mottled coloring w white/tan and red, poorly sorted, medium to fien grained, rounded grains, moist.
						10		
						20		20'-30' CALICHE with trace sand, white/tan, coarse to medium grained, poorly sorted, sub-rounded to sub-angular grained, dry.
						30	SP	30'-40' SAND with some caliche, red/purple, med. grained with coarse grained gravel. Gravel sub-angular to sub-rounded, dry. Poorly sorted.
						40		40'-100' SAND red/orange, medium grained, sub-rounded grains, poorly sorted, crystalline grains, dry.
						50		Injection of water and foaming agent @ 40' bgs.
						60		
						70		
						80		
						90		
						100	SP-SC	100'- 108' CLAYEY SAND, fine grained, brown/ orange silt, poorly sorted.
						TD		Total Depth @ 108' bgs.

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APPENDIX C

Photographic Log

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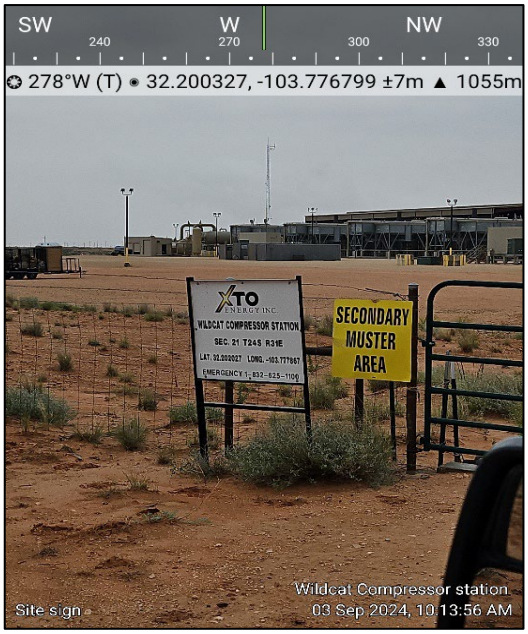
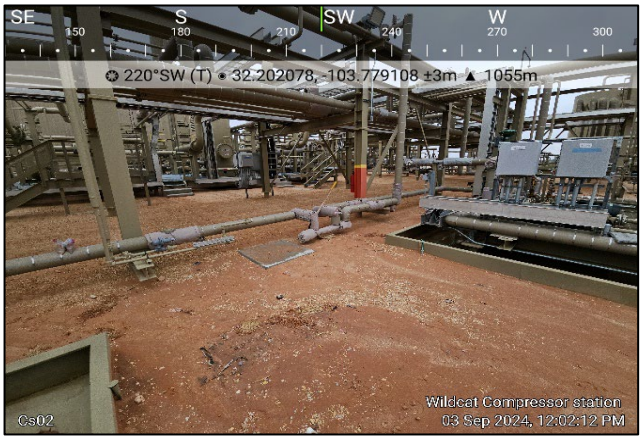
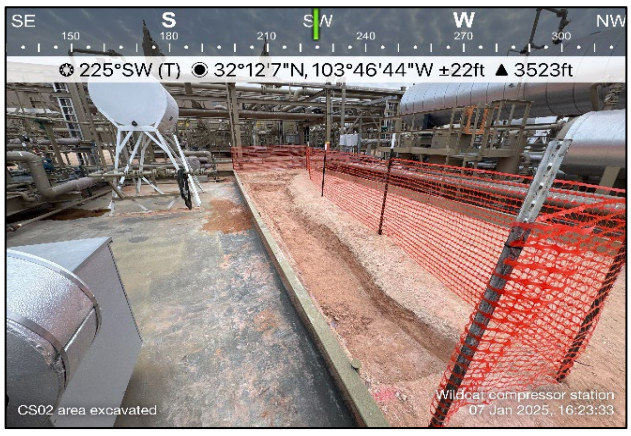
Photographic Log
XTO Energy Inc
Wildcat Compressor Station
Incident Number NAPP2423527011



Photograph: 1 Date: 9/3/2024
Description: Well sign
View: West



Photograph: 2 Date: 9/3/2024
Description: Confirmation soil sampling activities
View: Southwest



Photograph: 3 Date: 1/7/2025
Description: Excavation activities
View: Southwest

Photograph: 4 Date: 2/3/2025
Description: Confirmation soil sampling activities
View: South

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APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

Wildcat Compressor Station
03C1558524

JOB NUMBER

890-7446-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

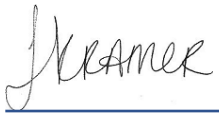
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/10/2025 11:04:33 AM
Revision 2

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Wildcat Compressor Station

Laboratory Job ID: 890-7446-1
SDG: 03C1558524

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Wildcat Compressor Station

Job ID: 890-7446-1
SDG: 03C1558524

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-7446-1
Project: Wildcat Compressor Station

Job ID: 890-7446-1 Eurofins Carlsbad

Job Narrative
890-7446-1

REVISION

The report being provided is a revision of the original report sent on 12/11/2024. The report (revision 2) is being revised due to TEG needs to report down to MDL.

Report revision history
Revision 1 - 2/7/2025 - Reason - Per client email, requesting data down to the MDL.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/6/2024 1:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

GC Semi VOA
Method 8015D_DAI_G - Soluble: The following sample was diluted to bring the concentration of target analytes within the calibration range: CS02 (890-7446-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: Wildcat Compressor Station

Job ID: 890-7446-1
SDG: 03C1558524

Client Sample ID: CS01
Date Collected: 12/06/24 09:25
Date Received: 12/06/24 13:05

Lab Sample ID: 890-7446-1
Matrix: Solid

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Triethylene Glycol	<1.24	U	10.1	1.24	mg/Kg			12/11/24 14:31	1

Client Sample ID: CS02
Date Collected: 12/06/24 09:27
Date Received: 12/06/24 13:05

Lab Sample ID: 890-7446-2
Matrix: Solid

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Triethylene Glycol	**1500**		500	61.5	mg/Kg			12/11/24 16:48	50

Client Sample ID: CS03
Date Collected: 12/06/24 09:30
Date Received: 12/06/24 13:05

Lab Sample ID: 890-7446-3
Matrix: Solid

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Triethylene Glycol	<1.23	U	9.97	1.23	mg/Kg			12/11/24 15:09	1

QC Sample Results

Client: Ensolum
Project/Site: Wildcat Compressor Station

Job ID: 890-7446-1
SDG: 03C1558524

Method: 8015D - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 860-204773/1-A
Matrix: Solid
Analysis Batch: 204729

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Triethylene Glycol	<1.23	U	10.0	1.23	mg/Kg			12/11/24 14:06	1

Lab Sample ID: LCS 860-204773/4-A
Matrix: Solid
Analysis Batch: 204729

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Triethylene Glycol			50.7	37.86		mg/Kg		75	67 - 130		

Lab Sample ID: LCSD 860-204773/5-A
Matrix: Solid
Analysis Batch: 204729

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Triethylene Glycol			50.7	39.15		mg/Kg		77	67 - 130	3	30

QC Association Summary

Client: Ensolum
Project/Site: Wildcat Compressor Station

Job ID: 890-7446-1
SDG: 03C1558524

GC Semi VOA

Analysis Batch: 204729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7446-1	CS01	Soluble	Solid	8015D	204773
890-7446-2	CS02	Soluble	Solid	8015D	204773
890-7446-3	CS03	Soluble	Solid	8015D	204773
MB 860-204773/1-A	Method Blank	Soluble	Solid	8015D	204773
LCS 860-204773/4-A	Lab Control Sample	Soluble	Solid	8015D	204773
LCSD 860-204773/5-A	Lab Control Sample Dup	Soluble	Solid	8015D	204773

Leach Batch: 204773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7446-1	CS01	Soluble	Solid	DI Leach	
890-7446-2	CS02	Soluble	Solid	DI Leach	
890-7446-3	CS03	Soluble	Solid	DI Leach	
MB 860-204773/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 860-204773/4-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 860-204773/5-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Lab Chronicle

Client: Ensolum
Project/Site: Wildcat Compressor Station

Job ID: 890-7446-1
SDG: 03C1558524

Client Sample ID: CS01
Date Collected: 12/06/24 09:25
Date Received: 12/06/24 13:05

Lab Sample ID: 890-7446-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			9.95 g	10 mL	204773	12/11/24 13:26	JBS	EET HOU
Soluble	Analysis	8015D		1	1 mL	1 mL	204729	12/11/24 14:31	JBS	EET HOU

Client Sample ID: CS02
Date Collected: 12/06/24 09:27
Date Received: 12/06/24 13:05

Lab Sample ID: 890-7446-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			10.00 g	10 mL	204773	12/11/24 13:26	JBS	EET HOU
Soluble	Analysis	8015D		50	1 mL	1 mL	204729	12/11/24 16:48	JBS	EET HOU

Client Sample ID: CS03
Date Collected: 12/06/24 09:30
Date Received: 12/06/24 13:05

Lab Sample ID: 890-7446-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			10.03 g	10 mL	204773	12/11/24 13:26	JBS	EET HOU
Soluble	Analysis	8015D		1	1 mL	1 mL	204729	12/11/24 15:09	JBS	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Wildcat Compressor Station

Job ID: 890-7446-1
SDG: 03C1558524

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	01-27-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D		Solid	Triethylene Glycol

Method Summary

Client: Ensolum
Project/Site: Wildcat Compressor Station

Job ID: 890-7446-1
SDG: 03C1558524

Method	Method Description	Protocol	Laboratory
8015D	Glycols- Direct Injection (GC/FID)	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: Wildcat Compressor Station

Job ID: 890-7446-1
SDG: 03C1558524

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7446-1	CS01	Solid	12/06/24 09:25	12/06/24 13:05
890-7446-2	CS02	Solid	12/06/24 09:27	12/06/24 13:05
890-7446-3	CS03	Solid	12/06/24 09:30	12/06/24 13:05

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

890-7446 Chain of Custody

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Dale Woodall
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307	Email:	tmorrissey@ensolum.com / msarkis@ensolum.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Wildcat Compressor Station	**Turn Around**	
Project Number:	03C1558524	☐ Routine ☑ Rush	
Project Location:	32.20165, -103.77801	Due Date:	12/9/2024
Sampler's Name:	Mario Sarkis	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	[illegible]	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.2	
Total Containers:		Corrected Temperature:	1.0	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Cool	TEG - 8015D
CS01	S	12/6/2024	9:25	0.3	Comp	1			X
CS02	S	12/6/2024	9:27	0.3	Comp	1			X
CS03	S	12/6/2024	9:30	0.3	Comp	1			X

Parameters

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2S0_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident #: nAPP2423527011

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		13:05 12/6			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer Jessica	Carrier Tracking No(s): N/A	COC No: 880-12067 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 890-7446-1
Address: 4145 Greenbriar Dr	Due Date Requested: 12/9/2024			
City: Stafford	TAT Requested (days): N/A			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WILDCAT COMPRESSOR STATION	Project #: 89000093			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015D_DAI_G/DI_LEACH (MOD) Glycols	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
CS01 (890-7446-1)	12/6/24	09:25 Mountain	G	Solid			X	1	
CS02 (890-7446-2)	12/6/24	09:27 Mountain	G	Solid			X	1	
CS03 (890-7446-3)	12/6/24	09:30 Mountain	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12 02 24 0940	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7446-1
SDG Number: 03C1558524

Login Number: 7446
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7446-1
SDG Number: 03C1558524

Login Number: 7446
List Number: 3
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 12/10/24 01:44 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
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Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/10/2025 12:28:49 PM Revision 2

JOB DESCRIPTION

WILDCAT COMPRESSOR STATION
03C1558524

JOB NUMBER

890-7550-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

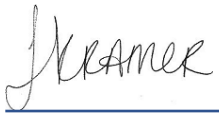
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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2/10/2025 12:28:49 PM
Revision 2

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: WILDCAT COMPRESSOR STATION

Laboratory Job ID: 890-7550-1
SDG: 03C1558524

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: WILDCAT COMPRESSOR STATION

Job ID: 890-7550-1
SDG: 03C1558524

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-7550-1
Project: WILDCAT COMPRESSOR STATION

Job ID: 890-7550-1 Eurofins Carlsbad

Job Narrative
890-7550-1

REVISION

The report being provided is a revision of the original report sent on 1/16/2025. The report (revision 2) is being revised due to need to the MDL revision required.

Report revision history
Revision 1 - 2/7/2025 - Reason - Per client email, requesting data down to the MDL.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 1/8/2025 8:11 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: CS 02A (890-7550-1).

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: WILDCAT COMPRESSOR STATION

Job ID: 890-7550-1
SDG: 03C1558524

Client Sample ID: CS 02A
Date Collected: 01/07/25 15:50
Date Received: 01/08/25 08:11
Sample Depth: 1'

Lab Sample ID: 890-7550-1
Matrix: Solid

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Triethylene Glycol	<1.23	U	10.0	1.23	mg/Kg			01/15/25 14:32	1

Surrogate Summary

Client: Ensolum
Project/Site: WILDCAT COMPRESSOR STATION

Job ID: 890-7550-1
SDG: 03C1558524

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7545-A-1-E MS	Matrix Spike	115	142 S1+
890-7545-A-1-F MSD	Matrix Spike Duplicate	134 S1+	162 S1+
890-7550-1	CS 02A	85	81
LCS 880-99851/2-A	Lab Control Sample	156 S1+	144 S1+
LCSD 880-99851/3-A	Lab Control Sample Dup	147 S1+	139 S1+
MB 880-99851/1-A	Method Blank	122	124

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: WILDCAT COMPRESSOR STATION

Job ID: 890-7550-1
SDG: 03C1558524

Method: 8015D - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 860-210663/1-A
Matrix: Solid
Analysis Batch: 210661

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Triethylene Glycol	<10.0	U	10.0		mg/Kg			01/14/25 16:46	1

QC Association Summary

Client: Ensolum
Project/Site: WILDCAT COMPRESSOR STATION

Job ID: 890-7550-1
SDG: 03C1558524

GC Semi VOA

Analysis Batch: 210661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-210663/1-A	Method Blank	Soluble	Solid	8015D	210663

Leach Batch: 210663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7550-1	CS 02A	Soluble	Solid	DI Leach	
MB 860-210663/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 210877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7550-1	CS 02A	Soluble	Solid	8015D	210663

Lab Chronicle

Client: Ensolum
Project/Site: WILDCAT COMPRESSOR STATION

Job ID: 890-7550-1
SDG: 03C1558524

Client Sample ID: CS 02A

Date Collected: 01/07/25 15:50
Date Received: 01/08/25 08:11

Lab Sample ID: 890-7550-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			9.97 g	10 mL	210663	01/14/25 13:37	JBS	EET HOU
Soluble	Analysis	8015D		1	1 mL	1 mL	210877	01/15/25 14:32	JBS	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: WILDCAT COMPRESSOR STATION

Job ID: 890-7550-1
SDG: 03C1558524

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	01-27-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D		Solid	Triethylene Glycol

Method Summary

Client: Ensolum
Project/Site: WILDCAT COMPRESSOR STATION

Job ID: 890-7550-1
SDG: 03C1558524

Method	Method Description	Protocol	Laboratory
8015D	Glycols- Direct Injection (GC/FID)	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: WILDCAT COMPRESSOR STATION

Job ID: 890-7550-1
SDG: 03C1558524

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7550-1	CS 02A	Solid	01/07/25 15:50	01/08/25 08:11	1'

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 1-1

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Colton Brown
Company Name:	Ensolum,LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green st
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307	Email:	tmorrissey@ensolum.com / usantillana@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Wildcat Compressor Station	**Turn Around**	
Project Number:	03C1558524	☑ Routine ☐ Rush	
Project Location:	32.20165, -103.77801	Due Date:	
Sampler's Name:	Uriel Santillana	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	INMCC7
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.0
Total Containers:		Corrected Temperature:	0.8

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	TEG - 8015D
CS02A	S	1/7/25	1550	1'	C	1					X

890-7550 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 ~~Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn~~
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7550-1
SDG Number: 03C1558524

Login Number: 7550
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7550-1
SDG Number: 03C1558524

Login Number: 7550
List Number: 3
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 01/14/25 12:20 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/10/2025 12:29:38 PM Revision 2

JOB DESCRIPTION

wildcats compressor station

JOB NUMBER

890-7624-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

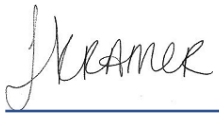
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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2/10/2025 12:29:38 PM
Revision 2

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: wildcats compressor station

Laboratory Job ID: 890-7624-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-7624-1
Project/Site: wildcats compressor station

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-7624-1
Project: wildcats compressor station

Job ID: 890-7624-1 Eurofins Carlsbad

Job Narrative
890-7624-1

REVISION

The report being provided is a revision of the original report sent on 2/6/2025. The report (revision 2) is being revised due to need to the MDL revision required.

Report revision history
Revision 1 - 2/7/2025 - Reason - Per client email, requesting data down to the MDL.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 2/3/2025 4:49 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Job ID: 890-7624-1
Project/Site: wildcats compressor station

Client Sample ID: SW01
Lab Sample ID: 890-7624-1
Date Collected: 02/03/25 14:20
Matrix: Solid
Date Received: 02/03/25 16:49

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Triethylene Glycol	<1.23	U	9.97	1.23	mg/Kg			02/06/25 15:43	1

QC Sample Results

Client: Ensolum
Project/Site: wildcats compressor station

Job ID: 890-7624-1

Method: 8015D - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 860-215166/1-A
Matrix: Solid
Analysis Batch: 215084

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Triethylene Glycol	<1.23	U	10.0	1.23	mg/Kg			02/06/25 13:59	1

Lab Sample ID: LCS 860-215166/4-A
Matrix: Solid
Analysis Batch: 215084

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Triethylene Glycol			50.7	53.26		mg/Kg		105	67 - 130		

Lab Sample ID: LCSD 860-215166/5-A
Matrix: Solid
Analysis Batch: 215084

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Triethylene Glycol			50.6	56.01		mg/Kg		111	67 - 130	5	30

QC Association Summary

Client: Ensolum
Project/Site: wildcats compressor station

Job ID: 890-7624-1

GC Semi VOA

Analysis Batch: 215084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7624-1	SW01	Soluble	Solid	8015D	215166
MB 860-215166/1-A	Method Blank	Soluble	Solid	8015D	215166
LCS 860-215166/4-A	Lab Control Sample	Soluble	Solid	8015D	215166
LCSD 860-215166/5-A	Lab Control Sample Dup	Soluble	Solid	8015D	215166

Leach Batch: 215166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7624-1	SW01	Soluble	Solid	DI Leach	
MB 860-215166/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 860-215166/4-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 860-215166/5-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Lab Chronicle

Client: Ensolum
Job ID: 890-7624-1
Project/Site: wildcats compressor station

Client Sample ID: SW01
Date Collected: 02/03/25 14:20
Date Received: 02/03/25 16:49

Lab Sample ID: 890-7624-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			10.03 g	10 mL	215166	02/06/25 11:00	JBS	EET HOU
Soluble	Analysis	8015D		1	1 mL	1 mL	215084	02/06/25 15:43	JBS	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-7624-1
Project/Site: wildcats compressor station

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	07-01-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D		Solid	Triethylene Glycol

Method Summary

Client: Ensolum Job ID: 890-7624-1
Project/Site: wildcats compressor station

Method	Method Description	Protocol	Laboratory
8015D	Glycols- Direct Injection (GC/FID)	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: wildcats compressor station

Job ID: 890-7624-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7624-1	SW01	Solid	02/03/25 14:20	02/03/25 16:49

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order: 890-7624 Chain of Custody

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	XTO Energy Inc (Attn Colton Brown)
Company Name:	Ensolum LLC	~~Company Name:~~	Cost Center: 1093661001
Address:	3122 National Parks Hwy	Address:	3104 E Green St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad NM 88220
Phone:	337 257 8307	Email:	Tmorrissey@ensolum.com, kthomason@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Wildcat Compressor Station	~~Turn Around~~	
Project Number:	05A1558524 / 89000093	☐ Routine ☑ Rush	
Project Location:	32.201165, -103.77801	Due Date: ~~3day~~ ~~24hr~~	
Sampler's Name:	Joshua Baxley	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TN2007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.8
~~Total Containers:~~		Corrected Temperature:	5.6

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Cool; Glycols; TEG; 8015D
SW01	S	2.3.25	1420	0-1'	Comp	1	Cool	X

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
~~Zn Acetate+NaOH: Zn~~
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident #NAP2423527011

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K ~~Se~~ ~~Ag~~ ~~SiO_2~~ ~~Na~~ ~~Sr~~ ~~Tl~~ ~~Sn~~ ~~U~~ ~~V~~ ~~Zn~~

Circle Method(s) and Metal(s) ~~to be analyzed~~ ~~TCLP / SPLP 6010~~: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, ~~its affiliates and subcontractors~~. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1					
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7624-1
SDG Number:

Login Number: 7624
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7624-1
SDG Number:

Login Number: 7624
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 02/05/25 01:53 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

CARDINAL Laboratories

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

January 14, 2025

TACOMA MORRISSEY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: WILDCAT COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 01/13/25 11:56.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/07/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	WILDCAT COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	03C1558524	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20165-103.77801		

Sample ID: CS 02A 1' (H250133-01)

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	01/13/2025	ND	1.57	78.6	2.00	11.6	
Toluene*	<0.050	0.050	01/13/2025	ND	1.65	82.7	2.00	11.4	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.67	83.6	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.14	85.6	6.00	11.9	
Total BTEX	<0.300	0.300	01/13/2025	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	**160**	16.0	01/13/2025	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	01/13/2025	ND	166	83.0	200	2.75	
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	168	83.9	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND					

Surrogate: 1-Chlorooctane *119 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *131 %* *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

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Tacoma Morrissey	**P.O. #:**
Address: 601 N Marienfeld Street, Suite 400	**Company:** XTO Energy, Inc
City: Midland **State:** TX **Zip:** 79701	**Attn:** Colton Brown
Phone #: 337-257-8307 **Fax #:**	**Address:** 3104 E Greene St
Project #: 03C1558524 **Project Owner:** XTO Energy	**City:** Carlsbad
Project Name: Wildcat Compressor Station	**State:** NM **Zip:** 88220
Project Location: 32.20165, -103.77801	**Phone #:**
Sampler Name: Uriel Santillana	**Fax #:**

FOR LAB USE ONLY					MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST														
Lab I.D.	**Sample I.D.**	**Depth (feet)**	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500														
H250133-1	CS02A	1'	C	1			X					X		1/7/25	1550	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:** 1.13.25	**Received By:**	
	Time: 1150		
Relinquished By:	**Date:**	**Received By:**	
	Time:		

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

All Results are emailed. Please provide Email address: Usantillana@ensolum.com

[redacted], TMorrissey@ensolum.com, [redacted]

REMARKS:
Incident Number: NAPP2423527011
Cost Center: 1083661001

Delivered By: (Circle One)	Observed Temp. °C 4.2	Sample Condition Cool: ☑ Yes ☐ No	Intact: ☐ Yes ☐ No	**CHECKED BY: (Initials)**	**Turnaround Time:** 24 hr **Standard** ☐ **Rush** ☒
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.6			AD	**Thermometer ID** #113 / #140 **Correction Factor** -0.5°C / -0.6

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

AD 1.13.25

CARDINAL Laboratories

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

February 06, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WILDCAT COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 02/04/25 14:00.

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

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:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	WILDCAT COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	03C1558524	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20165, -103.77801		

Sample ID: SW 01 0-1' (H250655-01)

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	02/05/2025	ND	2.12	106	2.00	1.24	
Toluene*	<0.050	0.050	02/05/2025	ND	2.20	110	2.00	1.30	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.23	112	2.00	1.49	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.78	113	6.00	1.39	
Total BTEX	<0.300	0.300	02/05/2025	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	02/05/2025	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	02/05/2025	ND	215	108	200	2.22	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	198	98.9	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

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

Surrogate: 1-Chlorooctadecane *96.4 %* *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

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

1 of 1

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: Colton Brown
Phone #: 575 937 3906 Fax #:	Address: 3104 E Green St
Project #: 03C1558524 Project Owner: XTO	City: Carlsbad
Project Name: Wildcat Compressor Station	State: NM Zip: 88220
Project Location: 32.26165, -103.77801	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: Chlorides	TPH	BTEX
H250655-1	SW01	0-1'	C	1			X					X		2.3.25	1420	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: 2-4-25	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1400		All Results are emailed. Please provide Email address: THillard @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		Incident: NAPP2423527011
			Cost Center: 1083661001

Delivered By: (Circle One)	Observed Temp. °C -0.3	Sample Condition	CHECKED BY:	Turnaround Time: Standard ☐	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C 0.0	Cool ☑ Yes ☑ Yes / Intact ☐ No ☐ No	(Initials) TC	48 hr Rush ☑	Cool ☐ Yes ☐ Yes / Intact ☐ No ☐ No
				Thermometer ID: #140	Observed Temp. °C
				Correction Factor: +0.3°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

September 09, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WILDCAT COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 09/05/24 14:40.

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.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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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:	09/05/2024	Sampling Date:	09/03/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	WILDCAT COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	03C1558524	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20165, -103.77801		

Sample ID: CS 01 0.3' (H245371-01)

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	09/06/2024	ND	2.07	103	2.00	4.01	
Toluene*	<0.050	0.050	09/06/2024	ND	2.13	107	2.00	5.73	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	2.16	108	2.00	6.98	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	6.61	110	6.00	6.72	
Total BTEX	<0.300	0.300	09/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *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	**64.0**	16.0	09/09/2024	ND	416	104	400	0.00	

pH pH Units Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	**6.97**	0.100	09/06/2024		7.12	102	7.00	3.25	
Temperature °C	**21.5**		09/06/2024					1.88	

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	09/07/2024	ND	184	92.2	200	1.01	
DRO >C10-C28*	**332**	10.0	09/07/2024	ND	178	89.2	200	3.84	
EXT DRO >C28-C36	**313**	10.0	09/07/2024	ND					

Surrogate: 1-Chlorooctane *128 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *152 %* *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:	09/05/2024	Sampling Date:	09/03/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	WILDCAT COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	03C1558524	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20165, -103.77801		

Sample ID: CS 02 0.3' (H245371-02)

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	09/06/2024	ND	2.07	103	2.00	4.01	
Toluene*	<0.050	0.050	09/06/2024	ND	2.13	107	2.00	5.73	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	2.16	108	2.00	6.98	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	6.61	110	6.00	6.72	
Total BTEX	<0.300	0.300	09/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *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	**64.0**	16.0	09/09/2024	ND	416	104	400	0.00	

pH pH Units Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	**7.48**	0.100	09/06/2024		7.12	102	7.00	3.25	
Temperature °C	**21.3**		09/06/2024					1.88	

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	09/06/2024	ND	184	92.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	178	89.2	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane *96.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *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:	09/05/2024	Sampling Date:	09/03/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	WILDCAT COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	03C1558524	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20165, -103.77801		

Sample ID: CS 03 0.3' (H245371-03)

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	09/06/2024	ND	2.07	103	2.00	4.01	
Toluene*	<0.050	0.050	09/06/2024	ND	2.13	107	2.00	5.73	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	2.16	108	2.00	6.98	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	6.61	110	6.00	6.72	
Total BTEX	<0.300	0.300	09/06/2024	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	**32.0**	16.0	09/09/2024	ND	416	104	400	0.00	

pH pH Units Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	**7.36**	0.100	09/06/2024		7.12	102	7.00	3.25	
Temperature °C	**20.9**		09/06/2024					1.88	

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	09/07/2024	ND	184	92.2	200	1.01	
DRO >C10-C28*	**43.0**	10.0	09/07/2024	ND	178	89.2	200	3.84	
EXT DRO >C28-C36	**35.7**	10.0	09/07/2024	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *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

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

1-1

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
City: Carlsbad **State:** NM **Zip:** 88220	**Attn:** Amy Ruth
Phone #: 575-937-3906 **Fax #:**	**Address:** 3104 E Green st
Project #: 03C1558524 **Project Owner:**	**City:** Carlsbad
Project Name: Wildcat Compressor Station	**State:** NM **Zip:** 88220
Project Location: 32.20165, -103.77801	**Phone #:**
Sampler Name: Uriel Santillana	**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: Chloride	BTEX	TPH	pH
H245371																			
1	CS01	0.3'	C	1			X					X		9/3/24	1157	X	X	X	X
2	CS02	↓	↓	↓			↓					↓		↓	1201	↓	↓	↓	↓
3	CS03	↓	↓	↓			↓					↓		↓	1204	↓	↓	↓	↓

Relinquished By:	**Date:** 9.5.24	**Received By:**	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1940		All Results are emailed. Please provide Email address:
Relinquished By:	**Date:**	**Received By:**	thillard@ensolum.com tmorrissey@ensolum.com
	Time:		**REMARKS:** Cost center: 1083661001
			Incident Number: NAPP2423527011

Delivered By: (Circle One)	Observed Temp. °C 3.5	Sample Condition Cool: ☑ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: 48 hr Standard ☐ Rush ☒ Thermometer ID #113 Correction Factor -0.5°C
Sampler - UPS - Bus - Other:	Corrected Temp. °C 2.0			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

September 09, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WILDCAT COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 09/05/24 14:40.

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

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:	09/05/2024	Sampling Date:	09/03/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	WILDCAT COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	03C1558524	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20165, -103.77801		

Sample ID: SS 01 0.5' (H245372-01)

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	09/06/2024	ND	1.73	86.5	2.00	12.9	
Toluene*	<0.050	0.050	09/06/2024	ND	1.78	89.2	2.00	14.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.85	92.6	2.00	14.7	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.68	94.7	6.00	15.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *130 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	09/09/2024	ND	416	104	400	0.00	

pH pH Units Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	**7.56**	0.100	09/06/2024		7.10	101	7.00	0.126	
Temperature °C	**21.2**		09/06/2024					0.494	

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	09/06/2024	ND	194	97.1	200	2.33	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	192	96.1	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane *113 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *118 %* *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:	09/05/2024	Sampling Date:	09/03/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	WILDCAT COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	03C1558524	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20165, -103.77801		

Sample ID: SS 02 0.5' (H245372-02)

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	09/06/2024	ND	1.73	86.5	2.00	12.9	
Toluene*	<0.050	0.050	09/06/2024	ND	1.78	89.2	2.00	14.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.85	92.6	2.00	14.7	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.68	94.7	6.00	15.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *128 %* *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	**16.0**	16.0	09/09/2024	ND	400	100	400	3.92	

pH pH Units Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	**8.77**	0.100	09/06/2024		7.10	101	7.00	0.126	
Temperature °C	**21.5**		09/06/2024					0.494	

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	09/06/2024	ND	194	97.1	200	2.33	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	192	96.1	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

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

Surrogate: 1-Chlorooctadecane *120 %* *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:	09/05/2024	Sampling Date:	09/03/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	WILDCAT COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	03C1558524	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20165, -103.77801		

Sample ID: SS 03 0.5' (H245372-03)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.73	86.5	2.00	12.9	
Toluene*	<0.050	0.050	09/06/2024	ND	1.78	89.2	2.00	14.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.85	92.6	2.00	14.7	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.68	94.7	6.00	15.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *149 %* *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	**64.0**	16.0	09/09/2024	ND	400	100	400	3.92	

pH pH Units Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	**7.89**	0.100	09/06/2024		7.10	101	7.00	0.126	
Temperature °C	**21.5**		09/06/2024					0.494	

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	09/06/2024	ND	194	97.1	200	2.33	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	192	96.1	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane *113 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *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:	09/05/2024	Sampling Date:	09/03/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	WILDCAT COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	03C1558524	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20165, -103.77801		

Sample ID: SS 04 0.5' (H245372-04)

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	09/06/2024	ND	1.73	86.5	2.00	12.9	
Toluene*	<0.050	0.050	09/06/2024	ND	1.78	89.2	2.00	14.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.85	92.6	2.00	14.7	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.68	94.7	6.00	15.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *141 %* *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	09/09/2024	ND	400	100	400	3.92	

pH pH Units Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	**7.38**	0.100	09/06/2024		7.10	101	7.00	0.126	
Temperature °C	**21.5**		09/06/2024					0.494	

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	09/06/2024	ND	194	97.1	200	2.33	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	192	96.1	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *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

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

1-1

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
City: Carlsbad **State:** NM **Zip:** 88220	**Attn:** Amy Ruth
Phone #: 575-937-3906 **Fax #:**	**Address:** 3104 E Green st
Project #: 03C1558524 **Project Owner:**	**City:** Carlsbad
Project Name: Wildcat Compressor Station	**State:** NM **Zip:** 88220
Project Location: 32.20165, -103.77801	**Phone #:**
Sampler Name: Uriel Santillana	**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: Chloride	BTEX	TPH	pH
H245372																			
1	SS01	0.5'	G	1			X					X		9/3/24	1154	X	X	X	X
2	SS02	↓	↓	↓			↓					↓		↓	1157	↓	↓	↓	↓
3	SS03														1246				
4	SS04														1249				

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:** 9.5.24	**Received By:**	
	Time: 1440		
Relinquished By:	**Date:**	**Received By:**	
	Time:		

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

All Results are emailed. Please provide Email address:
thillard@ensolum.com tmorrissey@ensolum.com

REMARKS: Cost center: 1083661001
Incident Number: NAPP2423527011

Delivered By: (Circle One)	Observed Temp. °C 3.3	**Sample Condition** Cool Intact	**CHECKED BY: (Initials)**
Sampler - UPS - Bus - Other:	Corrected Temp. °C 2.6	☐ Yes ☐ Yes ☐ No ☐ No	AD

Turnaround Time: Standard ☐ 09524 48hr Rush ☒
Thermometer ID #113 #145
Correction Factor -0.5°C -0.6

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

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

FORM-006 R 3.2 10/07/21

ENSOLUM

Appendix E

NMOCD Correspondence

Outlook

RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 404900

From Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Date Wed 12/4/2024 10:32 AM
To Woodall, Robert D <robert.d.woodall@exxonmobil.com>
Cc Tacoma Morrissey <tmorrissey@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

[**EXTERNAL EMAIL**]

Good morning Robert,

The EPA Resident Soil to GW SSL for TEG of 8.8 mg/kg may be used to guide remediation of the triethylene glycol release at NAPP2423527011 WILDCAT COMPRESSOR STATION. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Woodall, Robert D <robert.d.woodall@exxonmobil.com>
Sent: Tuesday, December 3, 2024 3:19 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: tmorrissey@ensolum.com
Subject: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 404900

Shelly:

XTO is requesting that the EPA's regional screening levels (RSLs) most recently published on November 2024 be used as a guidance for establishing remediation standards for the 8/21/2024 spill at the Wildcat Compressor Station. XTO proposes to apply the Resident Soil to Groundwater (GW) RSL table to determine a reasonable limit of triethylene glycol (TEG) concentration to grant Closure. The EPA Resident Soil to GW RSL for TEG is 8.8 mg/kg, based on the soil screening level approved for protection of groundwater (see attached table).

Following approval of the RSL, XTO will complete confirmation soil sampling in the release extent and submit the soil samples for analysis of TEG following EPA method 8015D. If laboratory analytical results show that soil is compliant with the proposed limit, XTO will submit a Closure Request detailing the additional remedial actions. If laboratory analytical results exceed the RSL excavation of the impacted soil to the maximum extent possible will be completed.

Please let me know if you have any questions regarding this request.

R. Dale Woodall
Wastewater Advisor

ExxonMobil Upstream Company
3104 E. Greene St.
Carlsbad, NM 88220
Cell Phone: 575-988-4374
Robert.D.Woodall@exxonmobil.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, November 25, 2024 4:08 PM
To: Woodall, Robert D <robert.d.woodall@exxonmobil.com>
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 404900

To whom it may concern (c/o Robert Woodall for XTO ENERGY, INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2423527011,
for the following reasons:

- **Remediation closure denied. Samples will need to be collected from the release area and tested for TEG. If TEG is found, remediation should commence until it is no longer detected. Resubmit closure report to the OCD by 2/24/25.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 404900.
Please review and make the required correction(s) prior to resubmitting.
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 433994

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 433994
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2423527011**
Incident Name	**NAPP2423527011 WILDCAT COMPRESSOR STATION @ 0**
Incident Type	**Other**
Incident Status	**Remediation Closure Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	WILDCAT COMPRESSOR STATION
Date Release Discovered	08/21/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	Cause: Other | Other (Specify) | Glycol | Released: 7 BBL | Recovered: 0 BBL | Lost: 7 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Glycol spraying from a broken tubing line on the lean glycol to contactor meter.

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 (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 433994
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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: 02/20/2025

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 (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 433994
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan 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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
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)	160
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	645
GRO+DRO (EPA SW-846 Method 8015M)	332
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	08/22/2024
On what date will (or did) the final sampling or liner inspection occur	02/03/2025
On what date will (or was) the remediation complete(d)	02/03/2025
What is the estimated surface area (in square feet) that will be reclaimed	435
What is the estimated volume (in cubic yards) that will be reclaimed	6
What is the estimated surface area (in square feet) that will be remediated	435
What is the estimated volume (in cubic yards) that will be remediated	3
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.	

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

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

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 433994
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	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: 02/20/2025
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)

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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)

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	Action Number: 433994
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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**426373**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/04/2025**
What was the (estimated) number of samples that were to be gathered	**1**
What was the sampling surface area in square feet	**200**

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	435
What was the total volume (cubic yards) remediated	3
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	235
What was the total volume (in cubic yards) reclaimed	3
Summarize any additional remediation activities not included by answers (above)	Site assessment activities were conducted to assess the presence or absence of impacted soil result-ing from the August 21, 2024, TEG release. Laboratory analytical results for all final confirmation soil samples indicated all COCs, including TEG, were in compliance with Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Approximately 3 cubic yards of waste-containing soil remains in place immediately adjacent to active production equipment and will be removed during any major facility reconstruction or final abandonment and reclamation of the pad sur-face. XTO respectfully requests closure and no further action for Incident Number nAPP2423527011.

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 02/20/2025

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QUESTIONS (continued)

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QUESTIONS

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

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
scwells	None	2/24/2025