ENSOLUM

June 11, 2025

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

Re: Closure Request
Poker Lake Unit 387 Battery
Incident Number NMAP1823448856
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 provide an update to the depth to groundwater determination activities performed at the Poker Lake Unit 387 Battery (Site), in accordance with an approved Remediation Work Plan, dated September 27, 2023. Based on the additional investigation of depth to groundwater, XTO is requesting closure for Incident Number NMAP1823448856.

RELEASE SUMMARY AND BACKGROUND

The Site is located in Unit D, Section 13, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.137664°, -103.841930°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On August 9, 2018, corrosion in the saltwater disposal (SWD) riser caused the release of 631 barrels (bbls) of produced water onto the adjacent pasture and lease road. The area around the riser had been previously excavated for upgrades. The majority of the released fluid was contained within the open excavation; however, some of the fluid flowed east along the lease road. Vacuum trucks were dispatched to the Site and recovered 540 bbls of produced water from the open excavation and 60 bbls from the ground surface. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 on August 22, 2018. The release was assigned Remediation Permit Number (RP) Number 2RP-4946 and Incident Number NMAP1823448856.

The release was included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the NMOCD effective November 13, 2018. The purpose of the Compliance Agreement was to ensure that reportable releases that occurred prior to or near August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

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

During October and November 2018, delineation and excavation activities were conducted at the Site to address the impacted soil resulting from the produced water release. Impacted soil was excavated to the extent possible; however, an estimated 90 cubic yards of impacted soil were left in place for compliance with XTO safety policy regarding earth-moving activities within two feet of active production equipment and pipelines. This policy was enforced where impacted soil was identified within two feet of the active SWD riser and pipelines. The impacted soil left in-place was laterally and vertically delineated to below the Site Closure Criteria. Additional details regarding the delineation and excavation activities can be referenced in the *Deferral Request*, submitted to NMOCD on April 11, 2019.

On March 16, 2023, NMOCD denied the *Deferral Request* for the following reasons:

- Deferral request denied. Per 19.15.29.12 C. (3) The responsible party shall remediate the impacted surface area of a release not occurring on a lined, bermed or otherwise contained exploration, development, production or storage site to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards and restore and reclaim the area pursuant to 19.15.29.13 NMAC.
- Samples SW03, SW05, SS01, and SS05 returned results above the reclamation standards of 600 mg/kg for chloride and/or 100 mg/kg for TPH.

In April 2023 additional soil sampling activities were conducted at the Site to confirm the presence or absence of waste containing soil in the top four feet. Closure was requested on June 15, 2023, based on laboratory analytical results for the confirmation and delineation soil samples indicating concentrations of all contaminants of concern (COCs) were compliant with the reclamation requirement. Additional details regarding the delineation and excavation activities can be referenced in the June 15, 2023, *Closure Request*.

On June 26, 2023, NMOCD denied the *Closure Request* for the following reasons:

- Closure denied. Inadequate depth to groundwater data.
- A deferral cannot be granted on a release if the depth to water is <50' depth to groundwater. At that point, a hydrovac/shovel would need to be used to safely remove the contaminated soil around equipment and pipelines. The release will need to be remediated to the strictest closure criteria limits (600 mg/kg, Chlorides, 100 mg/kg TPH, etc.). If you feel the depth to groundwater is >50', a shallow borehole can be drilled to 51' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. A driller's log must be provided in the report to the OCD.
- Samples FS01-FS05 and BH03 exceed closure criteria for depth to groundwater <50 feet.
- Submit a report via the OCD permitting portal by September 29, 2023.

Based on the lack of any verbiage regarding the Closure Criteria in NMOCD's denial of the April 19, 2019 *Deferral Request*, it appeared the Closure Criteria had been accepted. The *Deferral Request* was denied due to several soil samples not meeting the reclamation requirement, not that the strictest Table I Closure Criteria needed to be applied to the entire Site. However, to ensure closure of the release XTO

submitted a *Remediation Work Plan* (*Work Plan*) on September 29, 2023 and proposed to confirm the Closure Criteria by advancing a soil boring to confirm depth to groundwater is greater than 100 feet bgs at the Site. The *Work Plan* was approved on October 17, 2023.

DEPTH TO GROUNDWATER DETERMINATION

Following approval of permits from the New Mexico Office of the State Engineer and coordinating with driller's schedules, on January 15, 2025, a borehole (BH01) was advanced to a depth of 105 feet below ground surface (bgs) via hollow stem auger drill rig. The borehole was located approximately 0.43 miles east of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. The borehole lithologic soil sampling log is included in Appendix A. 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 100 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. Based on the confirmed depth to water greater than 100 feet bgs, the Table I Closure Criteria identified in the original *Closure Request* are applicable and appropriate for protection of groundwater at this Site.

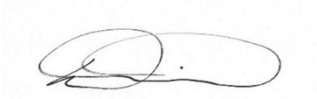
CLOSURE REQUEST

A soil boring installed within 0.43 miles of the Site confirmed depth to groundwater greater than 105 feet bgs; therefore, the Site-specific Closure Criteria presented in the original *Closure Request* was correctly applied. Based on excavation of impacted soil to below the confirmed Site Closure Criteria, XTO respectfully requests closure for Incident Number NMAP1823448856.

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

Sincerely,
Ensolum, LLC

Hadlie Green
Project Geologist



Daniel R. Moir, PG
Senior Managing Geologist

cc: Colton Brown, XTO
Kaylan Dirkx, XTO
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Appendix A	Well Record and Log
Appendix B	*Closure Request*, June 16, 2023
Appendix C	*Remediation Work Plan*; September 27, 2023

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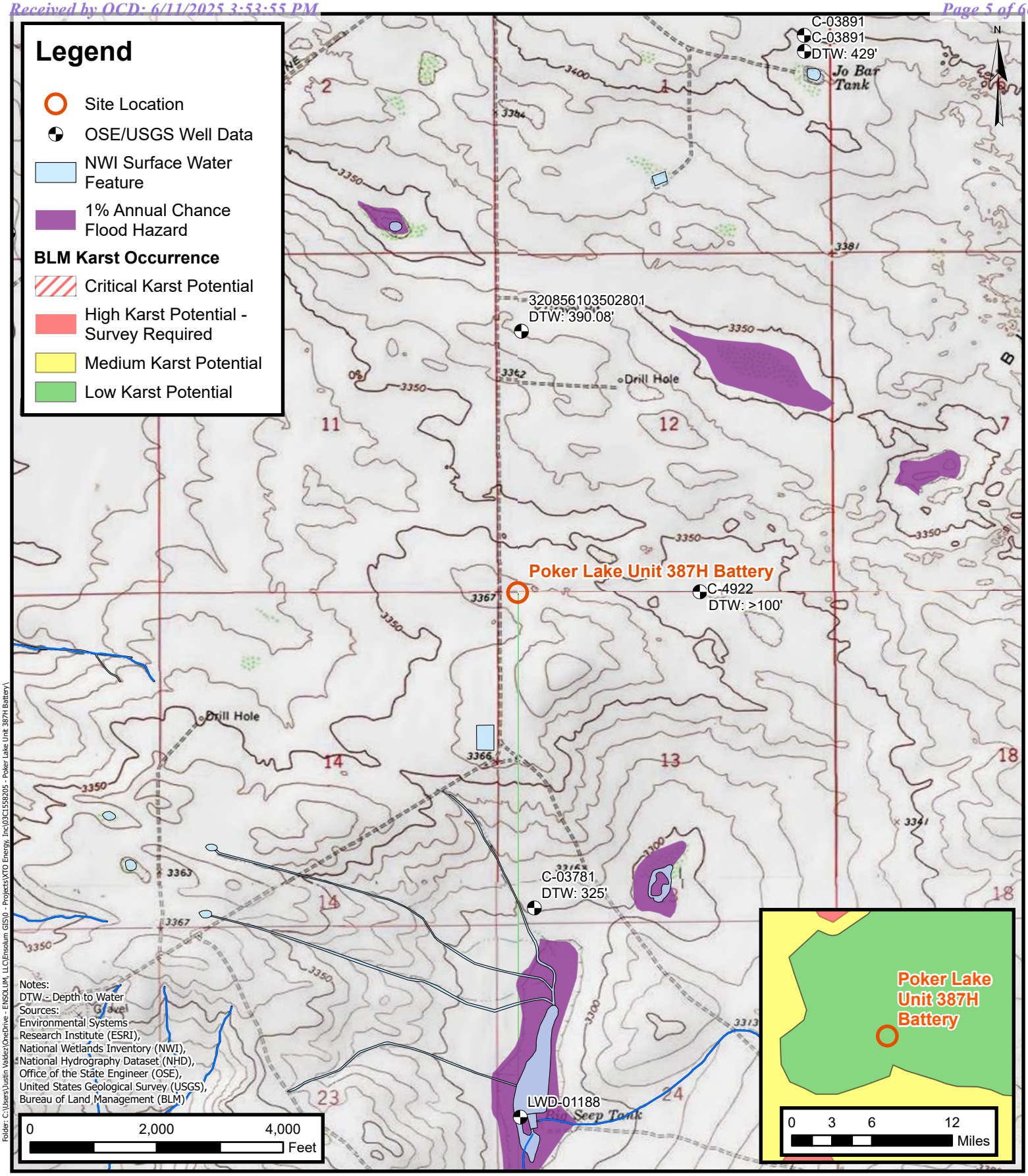
FIGURE 1



Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558205 - Poker Lake Unit 387H Battery\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc.
Poker Lake Unit 387H Battery
Incident Number: NMAP1823448856
Unit D, Section 13, T 25S, R 30E
Eddy County, New Mexico

FIGURE 1

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APPENDIX A
WELL RECORDS AND LOGS

Atkins ENGINEERING ASSOCIATES INC.
2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

February 19, 2025

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4922 Pod-1

To whom it may concern:

Attached please find the corrected well log & record and plugging record, in duplicate, for, C-4922 Pod-1 (originally filed 2/18/25).

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1 (TW-1)	N/A	C-4922

WELL OWNER NAME(S)	PHONE (OPTIONAL)
XTO Energy, Inc.	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
3104 E. Greene St.	Carlsbad	NM	88220

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	8	15.35	N
	LONGITUDE	103	49	54.69	W

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

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

NE NW NE Sec. 7 T25S R30E,NMPM

2. DRILLING & CASING INFORMATION

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

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
1/15/2025	1/15/2025	Temporary Well Material	±101	N/A

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DATE STATIC MEASURED: 2/13/2025

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

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

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	101	±6.25	Soil Boring	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT
			N/A		

OSE DT. ROSWELL, NM
19 FEB '25 PM 1:54

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	9	9	Sand, fine-grained, poorly-graded, unconsolidated, Reddish Brown	Y ✓ N	
9	34	25	Sand, fine-grained, poorly-graded, caliche layering Tannish White	Y ✓ N	
34	101	67	Sand, fine-grained, poorly-graded, unconsolidated, Tannish Brown	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

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

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

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

MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.
Manyo WAy

OSE DII ROSWELL NM
19 FEB '25 PM 1:34

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

Shane Eldridge, Cameron Pruitt

6. SIGNATURE

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

Jack Atkins (Feb 19, 2025 11:49 MST) Jackie D. Atkins 02/19/2025

SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4922 POD-1

Well owner: XTO Energy, Inc. Phone No.: 575-988-2390

Mailing address: 3104 E. Greene St.

City: Carlsbad State: New Mexico Zip code: 88220

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge, Cameron Pruitt

4) Date well plugging began: 02/13/2025 Date well plugging concluded: 02/13/2025

5) GPS Well Location: Latitude: 32 deg, 8 min, 15.35 sec
Longitude: 103 deg, 49 min, 54.69 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 101 ft below ground level (bgl), by the following manner: water level probe

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 12/18/2024

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	Boring	
	10'-101' Drill Cuttings	Approx. 145 gallons	145 gallons	Boring	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins (Feb 19, 2025 11:49 MST)

Signature of Well Driller

02/19/2025

Date

Version: September 8, 2009
Page 2 of 2

C-4922-WR-20 Well Record and Log-packet-forsign

Final Audit Report 2025-02-19

Created:	2025-02-19
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAS19qCSJ62L7F7PwirrQ3wwRPLdg-upoG

"C-4922-WR-20 Well Record and Log-packet-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2025-02-19 - 6:33:52 PM GMT

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2025-02-19 - 6:34:38 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2025-02-19 - 6:49:02 PM GMT

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2025-02-19 - 6:49:49 PM GMT - Time Source: server

Agreement completed.
2025-02-19 - 6:49:49 PM GMT

ENSOLUM

APPENDIX B
CLOSURE REQUEST, JUNE 15, 2023

ENSOLUM

June 15, 2023

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

Re: Closure Request
Poker Lake Unit 387H Battery
Incident Number NMAP1823448856
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* as a follow-up to the *Deferral Request* dated April 11, 2019. This *Closure Request* provides an update to the soil sampling activities completed at the Poker Lake Unit 387H Battery (Site) in response to the denial of the *Deferral Request* by the New Mexico Oil Conservation Division (NMOCD). In the denial, NMOCD indicated that soil samples collected off-pad did not meet reclamation requirements. Based on the additional soil sampling activities described below, XTO is submitting this *Closure Request* and requesting no further action and closure for Incident Number NMAP1823448856.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 13, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.137664°, -103.84193°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On August 9, 2018, corrosion in the saltwater disposal (SWD) riser caused the release of 631 barrels (bbls) of produced water onto the adjacent pasture and lease road. The area around the riser had been previously excavated for upgrades. The majority of the released fluid was contained within the open excavation; however, some of the fluid flowed east along the lease road. Vacuum trucks were dispatched to the Site and recovered 540 bbls of produced water from the open excavation and 60 bbls from the ground surface. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 on August 22, 2018. The release was assigned Remediation Permit Number (RP) Number 2RP-4946 and Incident Number NMAP1823448856.

The release is included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the NMOCD effective November 13, 2018. The purpose of the Compliance Agreement is to ensure that reportable releases that occurred prior to or near August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018.

BACKGROUND

The *Deferral Request* detailed site characterization according to Table 1, Closure Criteria for Soils Impacted by a Release, of 19.15.29 of the NMAC. Results from the site characterization are presented on page 3 of the Form C-141, Site Assessment/Characterization.

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

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

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

During October and November 2018, delineation and excavation activities were conducted at the Site to address the impacted soil resulting from the August 9, 2018, produced water release. Impacted soil was excavated to the extent possible; however, an estimated 90 cubic yards of impacted soil were left in place for compliance with XTO safety policy regarding earth-moving activities within two feet of active production equipment and pipelines. This policy was enforced where impacted soil was identified within two feet of the active SWD riser and pipelines. The impacted soil left in-place was laterally and vertically delineated to below the Site Closure Criteria. Additional details regarding the delineation and excavation activities can be referenced in the *Deferral Request,* submitted to NMOCD on April 11, 2019.

On March 16, 2023, NMOCD denied the *Deferral Request* for Incident Number NMAP1823448856 for the following reasons:

- Deferral request denied. Per 19.15.29.12 C. (3) The responsible party shall remediate the impacted surface area of a release not occurring on a lined, bermed or otherwise contained exploration, development, production or storage site to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards and restore and reclaim the area pursuant to 19.15.29.13 NMAC.
- Samples SW03, SW05, SS01, and SS05 returned results above the reclamation standards of 600 mg/kg for chloride and/or 100 mg/kg for TPH.

Upon review of the 2018 soil sample analytical results, assessment samples SS01@0.5, SS01@1', SS05@0.5' and excavation sidewall sample SW05@2' were identified with a TPH concentration greater than 100 mg/kg in the top four feet. A TPH concentration of 100 mg/kg was not applied to off-pad release areas at the time of the original sampling and reporting activities. The *Deferral Request* was submitted on April 11, 2019, prior to the September 6, 2019, publication of the Procedures for Implementation of the Spill Rule guidance document that clarified the TPH requirement (Section II.b.).

Excavation sidewall samples SW03@2' and SW05@2' exceeded 600 mg/kg for chloride in the top four feet; however, these samples were included in the area requested for deferral based on the proximity of the SWD riser and pipelines.

ADDITIONAL SOIL SAMPLING ACTIVITIES

On April 13, 2023, Ensolum personnel returned to the Site to complete additional soil sampling activities to assess for the presence or absence of residual impacted soil identified during 2018 at the original SS01, SS05, SW03, and SW05 soil sample locations. Soil samples SS08 and SS08A were collected from depths of 0.5 feet and 1-foot bgs at the original SS01 soil sample location. Soil sample SS09 was collected from a depth of 0.5 feet bgs at the original SS05 soil sample location. Soil samples SW06 and SW07 were collected from depths ranging from the ground surface to 2 feet bgs at the original SW03 and SW05 excavation sidewall sample locations.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix A.

Laboratory analytical results for soil samples SS08, SS08A, SS09, SW06, and SW07 indicated that all COC concentrations were compliant with the Site Closure Criteria and the reclamation requirement. The soil sample analytical results are summarized on Table 1 and the laboratory analytical report is included as Appendix B.

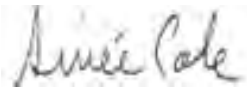
CLOSURE REQUEST

Excavation, delineation, and soil sampling activities were completed at the Site to address the impacted soil resulting from the August 9, 2018, produced water release. Based on the additional soil sampling activities completed during April 2023 and laboratory analytical results for all final excavation and delineation soil samples compliant with the Site Closure Criteria and the reclamation requirement in soil samples collected from the top four feet, no further remediation is required.

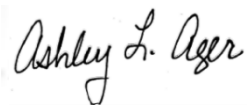
Initial response efforts, excavation of impacted soil, and natural attenuation have mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs at the Site and no other sensitive receptors were identified near the release extent. XTO believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number NMAP1823448856

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

Sincerely,
Ensolum, LLC



Aimee Cole
Senior Managing Scientist



Ashley Ager, P.G.
Program Director

cc: Garrett Green, XTO
Shelby Pennington, XTO

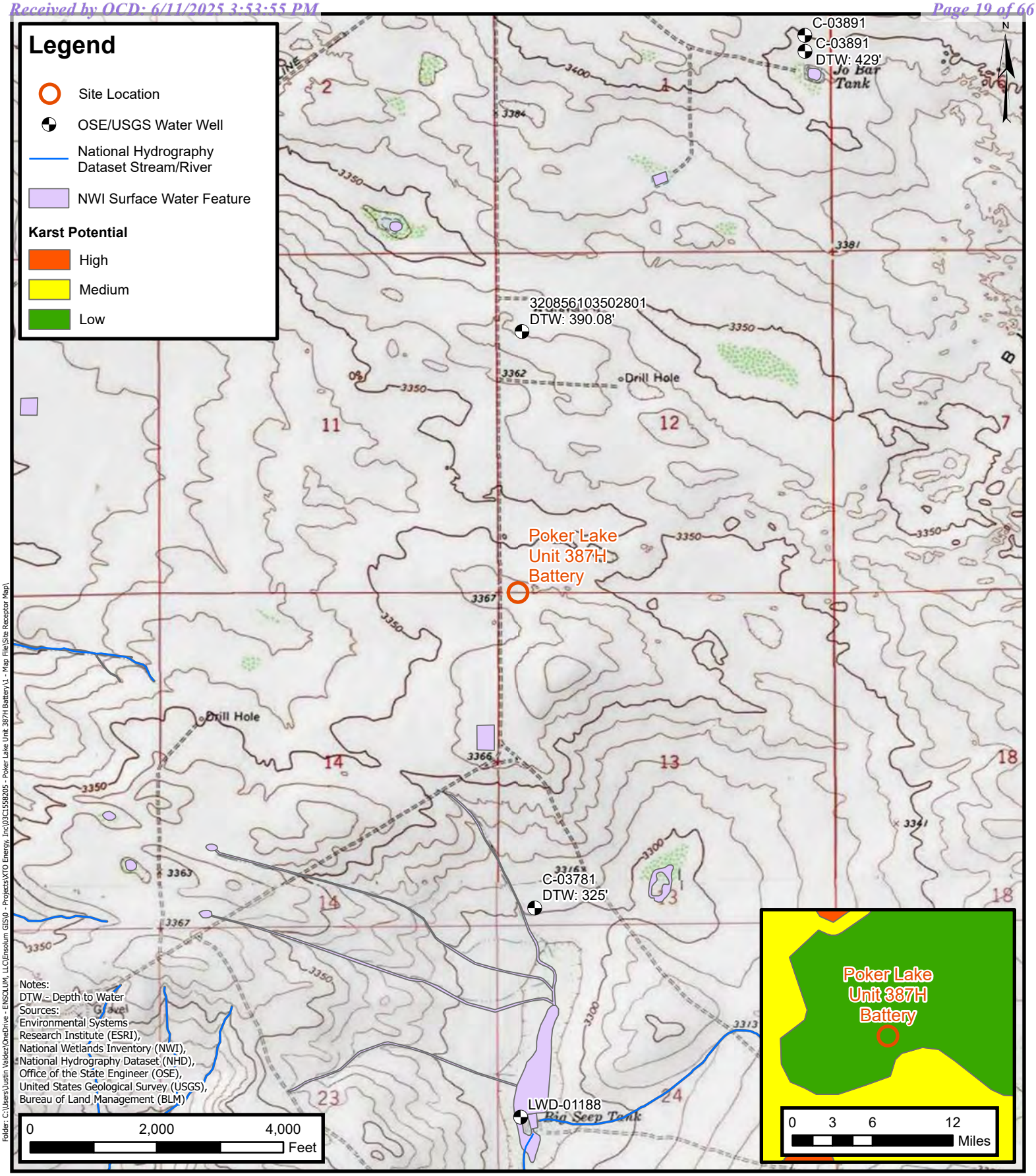
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Soil Sample Location Map (2018/2023)
Table 1	Soil Sample Analytical Results (2018/2023)
Appendix A	Photographic Log (2023)
Appendix B	Laboratory Analytical Reports & Chain-of-Custody Documentation (2023)
Appendix C	NMOCD Notifications

ENSOLUM

FIGURES



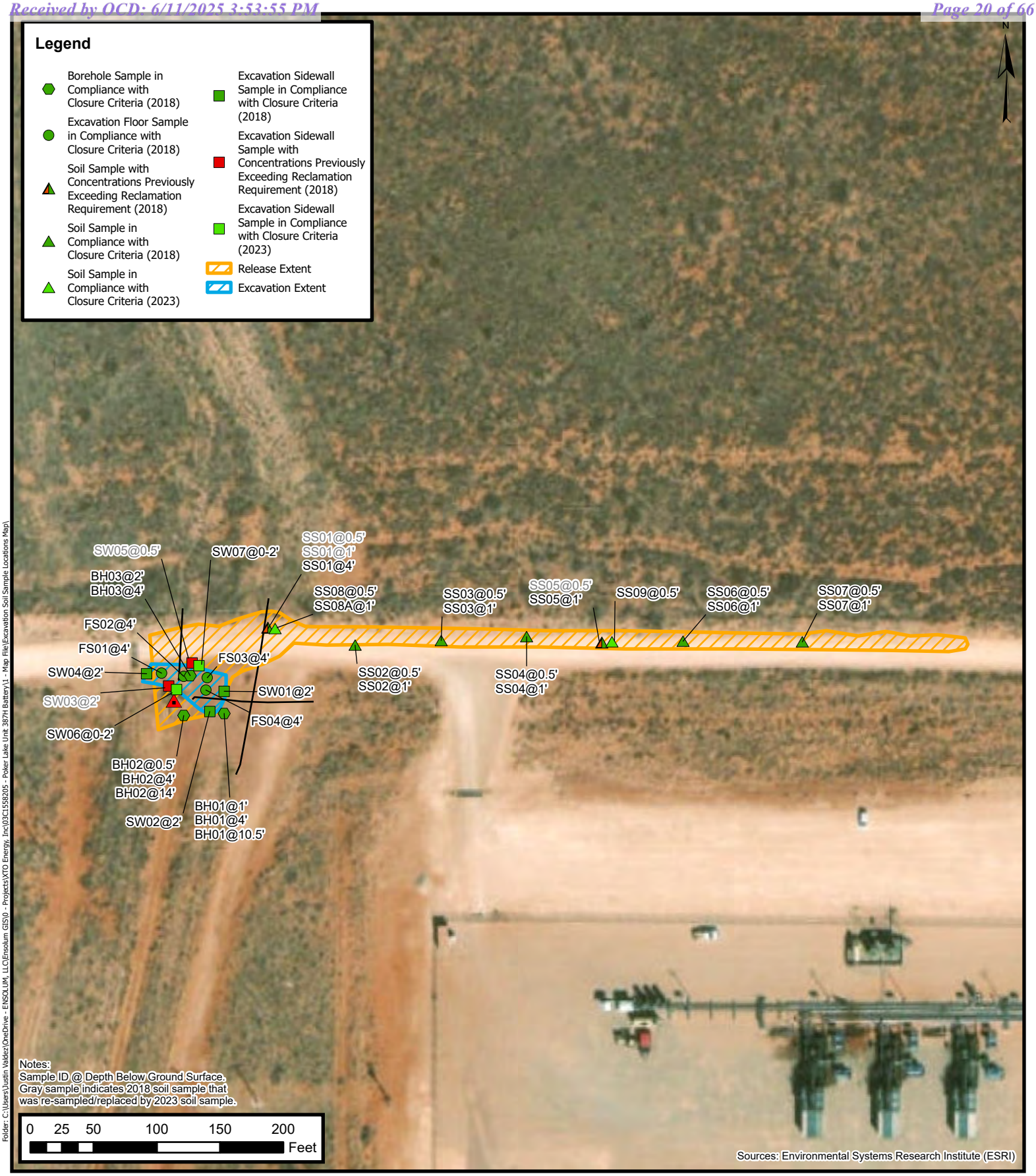
Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558205 - Poker Lake Unit 387H Battery\1 - Map Files\Site Receptor Map\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc.
Poker Lake Unit 387H Battery
Incident Number: NMAP1823448856
Unit D, Section 13, Township 25 South, Range 30 East
Eddy County, New Mexico

FIGURE 1



Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558205 - Poker Lake Unit 387H Battery\1 - Map File\Excavation Soil Sample Locations Map\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Soil Sample Location Map

XTO Energy, Inc.
Poker Lake Unit 387H Battery
Incident Number: NMAP1823448856
Unit D, Section 13, Township 25 South, Range 30 East
Eddy County, New Mexico

FIGURE 2

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Poker Lake Unit 387H Battery
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
BH01*	10/26/2018	2	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98
BH01	10/26/2018	4	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	<4.96
BH01	10/29/2018	10.5	<0.0188	<0.0188	<15.0	<15.0	<15.0	<15.0	<15.0	6.04
BH02*	10/26/2018	2	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	<5.02
BH02	10/26/2018	4	<0.00199	<0.00199	<14.9	<14.9	<14.9	<14.9	<14.9	<5.00
BH02	10/29/2018	14	<0.0197	<0.0197	<15.0	<15.0	<15.0	<15.0	<15.0	284
BH03*	10/26/2018	2	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	45.1
BH03	10/26/2018	4	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	7,820
SS01*	11/1/2018	0.5	<0.00199	0.00857	<15.0	776	130	776	**906**	79.1
SS01*	11/1/2018	1	<0.00199	0.00464	<15.0	279	51	279	**330**	90.4
SS01	11/1/2018	4	<0.00198	<0.00198	<15.0	43.9	<15.0	43.9	43.9	204
SS02*	11/1/2018	0.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	16.3
SS02*	11/1/2018	1	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	13.4
SS03*	11/1/2018	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.00
SS03*	11/1/2018	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.95
SS04*	11/1/2018	0.5	<0.00199	<0.00199	<15.0	15.5	<15.0	15.5	15.5	6.88
SS04*	11/1/2018	1	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	17.9
SS05*	11/1/2018	0.5	<0.00199	<0.00199	<15.0	277	43.8	277	**321**	36.3
SS05*	11/1/2018	1	<0.00199	0.00242	<15.0	34.2	<15.0	34.2	34.2	20.8
SS06*	11/1/2018	0.5	<0.00200	<0.00200	<15.0	92.7	<15.0	92.7	92.7	18.4
SS06*	11/1/2018	1	<0.00198	0.00243	<15.0	24.1	<15.0	24.1	24.1	45
SS07*	11/1/2018	0.5	<0.00198	<0.00198	<14.9	72.5	<14.9	72.5	72.5	<4.97
SS07*	11/1/2018	1	<0.00198	<0.00198	<15.0	58.5	<15.0	58.5	58.5	<5.00
SS08*	04/13/2023	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	289
SS08A*	04/13/2023	1	<0.00199	0.00913	<49.9	<49.9	<49.9	<49.9	<49.9	59.3
SS09*	04/13/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	36.2

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Poker Lake Unit 387H Battery
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Soil Samples										
SW01*	11/1/2018	2	<0.00198	<0.00198	<15.0	15.7	<15.0	15.7	15.7	56.4
SW02*	11/1/2018	2	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	99.7
SW03*	11/1/2018	2	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**1,660**
SW04*	11/1/2018	2	<0.00199	<0.00199	<14.9	15.9	<14.9	15.9	15.9	293
SW05*	11/1/2018	2	<0.00198	0.0765	19.7	301	37.4	321	**358**	**1,990**
SW06*	04/13/2023	0 - 2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	250
SW07*	04/13/2023	0 - 2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	249
FS01	11/1/2018	4	<0.00198	<0.00198	<14.9	45.8	<14.9	45.8	45.8	2,920
FS02	11/1/2018	4	<0.00200	<0.00200	<15.0	145	21.4	145	166	2,790
FS03	11/1/2018	4	<0.00200	<0.00200	<15.0	26.1	<15.0	26.1	26.1	3,080
FS04	11/1/2018	4	<0.00198	<0.00198	<15.0	15.8	<15.0	15.8	15.8	2,180
FS05	11/1/2018	4	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	861

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates 2018 soil sample that was re-sampled/replaced by 2023 soil sample.

* -indicates sample was collected in the top 4 feet of an area to be reclaimed after remediation is complete

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APPENDIX A

Photographic Log

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Photographic Log
XTO Energy, Inc.
Poker Lake Unit 387H Battery
Incident Number NMAP1823448856

Photograph: 1 Date: 4/13/2023
Description: View of historical release area.

Photograph: 2 Date: 4/13/2023
Description: View of historical release area.

Photograph: 3 Date: 4/13/2023
Description: View of historical release area.

Photograph: 4 Date: 4/13/2023
Description: View of historical release area.

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APPENDIX B

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

Generated 4/19/2023 12:23:03 PM

JOB DESCRIPTION

PLU 387H
SDG NUMBER 03C1558205

JOB NUMBER

890-4513-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

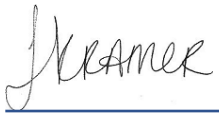
Eurofins Carlsbad

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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4/19/2023 12:23:03 PM

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

Client: Ensolum
Project/Site: PLU 387H

Laboratory Job ID: 890-4513-1
SDG: 03C1558205

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Job ID: 890-4513-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4513-1

Receipt
The samples were received on 4/13/2023 2:14 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 4.0°C

Receipt Exceptions
The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: SS08 (890-4513-1), SS08A (890-4513-2), SS09 (890-4513-3), SW06 (890-4513-4) and SW07 (890-4513-5).

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

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51313 and analytical batch 880-51409 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Client Sample ID: SS08

Lab Sample ID: 890-4513-1
Matrix: Solid
Date Collected: 04/13/23 09:40
Date Received: 04/13/23 14:14
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:48	04/18/23 17:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:48	04/18/23 17:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:48	04/18/23 17:55	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/17/23 13:48	04/18/23 17:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:48	04/18/23 17:55	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/17/23 13:48	04/18/23 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/17/23 13:48*	*04/18/23 17:55*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/17/23 13:48*	*04/18/23 17:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/19/23 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/23 09:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:25	04/17/23 12:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:25	04/17/23 12:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:25	04/17/23 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*04/17/23 09:25*	*04/17/23 12:47*	*1*
o-Terphenyl	*73*		*70 - 130*	*04/17/23 09:25*	*04/17/23 12:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**289**		5.04		mg/Kg			04/17/23 23:29	1

Client Sample ID: SS08A

Lab Sample ID: 890-4513-2
Matrix: Solid
Date Collected: 04/13/23 09:45
Date Received: 04/13/23 14:14
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:48	04/18/23 18:15	1
Toluene	**0.00913**		0.00199		mg/Kg		04/17/23 13:48	04/18/23 18:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:48	04/18/23 18:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:48	04/18/23 18:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:48	04/18/23 18:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:48	04/18/23 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*04/17/23 13:48*	*04/18/23 18:15*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Client Sample ID: SS08A

Date Collected: 04/13/23 09:45
Date Received: 04/13/23 14:14
Sample Depth: 1

Lab Sample ID: 890-4513-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/17/23 13:48*	*04/18/23 18:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00913**		0.00398		mg/Kg			04/19/23 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/18/23 09:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:25	04/17/23 13:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/23 09:25	04/17/23 13:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/23 09:25	04/17/23 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*04/17/23 09:25*	*04/17/23 13:54*	*1*
o-Terphenyl	*81*		*70 - 130*	*04/17/23 09:25*	*04/17/23 13:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.3**		5.03		mg/Kg			04/17/23 23:33	1

Client Sample ID: SS09

Date Collected: 04/13/23 09:50
Date Received: 04/13/23 14:14
Sample Depth: 0.5

Lab Sample ID: 890-4513-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:48	04/18/23 18:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:48	04/18/23 18:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:48	04/18/23 18:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:48	04/18/23 18:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:48	04/18/23 18:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:48	04/18/23 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/17/23 13:48*	*04/18/23 18:36*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/17/23 13:48*	*04/18/23 18:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/19/23 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/18/23 09:33	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Client Sample ID: SS09

Lab Sample ID: 890-4513-3
Matrix: Solid
Date Collected: 04/13/23 09:50
Date Received: 04/13/23 14:14
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/23 09:25	04/17/23 14:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/23 09:25	04/17/23 14:17	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/23 09:25	04/17/23 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*04/17/23 09:25*	*04/17/23 14:17*	*1*
o-Terphenyl	*80*		*70 - 130*	*04/17/23 09:25*	*04/17/23 14:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.2**		4.98		mg/Kg			04/17/23 23:38	1

Client Sample ID: SW06

Lab Sample ID: 890-4513-4
Matrix: Solid
Date Collected: 04/13/23 10:30
Date Received: 04/13/23 14:14
Sample Depth: 0 - 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:48	04/18/23 18:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:48	04/18/23 18:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:48	04/18/23 18:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/17/23 13:48	04/18/23 18:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:48	04/18/23 18:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/17/23 13:48	04/18/23 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/17/23 13:48*	*04/18/23 18:56*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/17/23 13:48*	*04/18/23 18:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/19/23 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/18/23 09:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/23 09:25	04/17/23 14:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/23 09:25	04/17/23 14:39	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/23 09:25	04/17/23 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*04/17/23 09:25*	*04/17/23 14:39*	*1*
o-Terphenyl	*78*		*70 - 130*	*04/17/23 09:25*	*04/17/23 14:39*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Client Sample ID: SW06

Lab Sample ID: 890-4513-4
Matrix: Solid
Date Collected: 04/13/23 10:30
Date Received: 04/13/23 14:14
Sample Depth: 0 - 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		24.8		mg/Kg			04/17/23 23:42	5

Client Sample ID: SW07

Lab Sample ID: 890-4513-5
Matrix: Solid
Date Collected: 04/13/23 11:10
Date Received: 04/13/23 14:14
Sample Depth: 0 - 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:48	04/18/23 19:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:48	04/18/23 19:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:48	04/18/23 19:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/17/23 13:48	04/18/23 19:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:48	04/18/23 19:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/17/23 13:48	04/18/23 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*04/17/23 13:48*	*04/18/23 19:37*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*04/17/23 13:48*	*04/18/23 19:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/19/23 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/23 09:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:25	04/17/23 15:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:25	04/17/23 15:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:25	04/17/23 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*04/17/23 09:25*	*04/17/23 15:02*	*1*
o-Terphenyl	*85*		*70 - 130*	*04/17/23 09:25*	*04/17/23 15:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		24.8		mg/Kg			04/17/23 23:47	5

Surrogate Summary

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4513-1	SS08	105	101
890-4513-2	SS08A	107	106
890-4513-3	SS09	108	107
890-4513-4	SW06	108	104
890-4513-5	SW07	112	110
890-4515-A-1-C MS	Matrix Spike	107	112
890-4515-A-1-D MSD	Matrix Spike Duplicate	109	107
LCS 880-51325/1-A	Lab Control Sample	104	111
LCSD 880-51325/2-A	Lab Control Sample Dup	105	112
MB 880-51325/5-A	Method Blank	92	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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)
890-4513-1	SS08	72	73
890-4513-1 MS	SS08	84	75
890-4513-1 MSD	SS08	76	70
890-4513-2	SS08A	75	81
890-4513-3	SS09	74	80
890-4513-4	SW06	74	78
890-4513-5	SW07	84	85
LCS 880-51297/2-A	Lab Control Sample	98	97
LCSD 880-51297/3-A	Lab Control Sample Dup	86	87
MB 880-51297/1-A	Method Blank	108	120

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51325/5-A
Matrix: Solid
Analysis Batch: 51362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51325

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:48	04/18/23 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:48	04/18/23 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:48	04/18/23 12:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/23 13:48	04/18/23 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:48	04/18/23 12:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/23 13:48	04/18/23 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*04/17/23 13:48*	*04/18/23 12:11*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/17/23 13:48*	*04/18/23 12:11*	*1*

Lab Sample ID: LCS 880-51325/1-A
Matrix: Solid
Analysis Batch: 51362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51325

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09727		mg/Kg		97	70 - 130		
Toluene			0.100	0.09414		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.08776		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene			0.200	0.1761		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08791		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-51325/2-A
Matrix: Solid
Analysis Batch: 51362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51325

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1032		mg/Kg		103	70 - 130	6	35
Toluene			0.100	0.1006		mg/Kg		101	70 - 130	7	35
Ethylbenzene			0.100	0.09382		mg/Kg		94	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1870		mg/Kg		94	70 - 130	6	35
o-Xylene			0.100	0.09367		mg/Kg		94	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 890-4515-A-1-C MS
Matrix: Solid
Analysis Batch: 51362

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 51325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0996	0.09364		mg/Kg		94	70 - 130		
Toluene	<0.00200	U	0.0996	0.08925		mg/Kg		90	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-4515-A-1-C MS
Matrix: Solid
Analysis Batch: 51362

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 51325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0996	0.08114		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1605		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.0996	0.08055		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 890-4515-A-1-D MSD
Matrix: Solid
Analysis Batch: 51362

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 51325

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.09458		mg/Kg		95	70 - 130	1	35
Toluene	<0.00200	U	0.0994	0.09114		mg/Kg		92	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0994	0.08313		mg/Kg		84	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1650		mg/Kg		83	70 - 130	3	35
o-Xylene	<0.00200	U	0.0994	0.08268		mg/Kg		83	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-51297/1-A
Matrix: Solid
Analysis Batch: 51269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51297

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:25	04/17/23 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:25	04/17/23 10:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:25	04/17/23 10:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*04/17/23 09:25*	*04/17/23 10:10*	*1*
o-Terphenyl	*120*		*70 - 130*	*04/17/23 09:25*	*04/17/23 10:10*	*1*

Lab Sample ID: LCS 880-51297/2-A
Matrix: Solid
Analysis Batch: 51269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51297

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1066		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1176		mg/Kg		118	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

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

Lab Sample ID: LCS 880-51297/2-A
Matrix: Solid
Analysis Batch: 51269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51297

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-51297/3-A
Matrix: Solid
Analysis Batch: 51269

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51297

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1020		mg/Kg		102	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1023		mg/Kg		102	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-4513-1 MS
Matrix: Solid
Analysis Batch: 51269

Client Sample ID: SS08
Prep Type: Total/NA
Prep Batch: 51297

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	998.5		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1165		mg/Kg		113	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 890-4513-1 MSD
Matrix: Solid
Analysis Batch: 51269

Client Sample ID: SS08
Prep Type: Total/NA
Prep Batch: 51297

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1010		mg/Kg		100	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1077		mg/Kg		105	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	70		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51313/1-A
Matrix: Solid
Analysis Batch: 51409

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/17/23 21:30	1

Lab Sample ID: LCS 880-51313/2-A
Matrix: Solid
Analysis Batch: 51409

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	245.2		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-51313/3-A
Matrix: Solid
Analysis Batch: 51409

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
Chloride			250	264.8		mg/Kg		106	90 - 110	8	20

Lab Sample ID: 880-27148-A-1-C MS
Matrix: Solid
Analysis Batch: 51409

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	783	F1	251	961.0	F1	mg/Kg		71	90 - 110		

Lab Sample ID: 880-27148-A-1-D MSD
Matrix: Solid
Analysis Batch: 51409

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	783	F1	251	961.6	F1	mg/Kg		71	90 - 110	0	20

Lab Sample ID: 880-27151-A-3-C MS
Matrix: Solid
Analysis Batch: 51409

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	8460		5040	13090		mg/Kg		92	90 - 110		

Lab Sample ID: 880-27151-A-3-D MSD
Matrix: Solid
Analysis Batch: 51409

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8460		5040	13410		mg/Kg		98	90 - 110	2	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

GC VOA

Prep Batch: 51325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4513-1	SS08	Total/NA	Solid	5035	
890-4513-2	SS08A	Total/NA	Solid	5035	
890-4513-3	SS09	Total/NA	Solid	5035	
890-4513-4	SW06	Total/NA	Solid	5035	
890-4513-5	SW07	Total/NA	Solid	5035	
MB 880-51325/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51325/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51325/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4515-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4515-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 51362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4513-1	SS08	Total/NA	Solid	8021B	51325
890-4513-2	SS08A	Total/NA	Solid	8021B	51325
890-4513-3	SS09	Total/NA	Solid	8021B	51325
890-4513-4	SW06	Total/NA	Solid	8021B	51325
890-4513-5	SW07	Total/NA	Solid	8021B	51325
MB 880-51325/5-A	Method Blank	Total/NA	Solid	8021B	51325
LCS 880-51325/1-A	Lab Control Sample	Total/NA	Solid	8021B	51325
LCSD 880-51325/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51325
890-4515-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	51325
890-4515-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	51325

Analysis Batch: 51508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4513-1	SS08	Total/NA	Solid	Total BTEX	
890-4513-2	SS08A	Total/NA	Solid	Total BTEX	
890-4513-3	SS09	Total/NA	Solid	Total BTEX	
890-4513-4	SW06	Total/NA	Solid	Total BTEX	
890-4513-5	SW07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 51269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4513-1	SS08	Total/NA	Solid	8015B NM	51297
890-4513-2	SS08A	Total/NA	Solid	8015B NM	51297
890-4513-3	SS09	Total/NA	Solid	8015B NM	51297
890-4513-4	SW06	Total/NA	Solid	8015B NM	51297
890-4513-5	SW07	Total/NA	Solid	8015B NM	51297
MB 880-51297/1-A	Method Blank	Total/NA	Solid	8015B NM	51297
LCS 880-51297/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51297
LCSD 880-51297/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51297
890-4513-1 MS	SS08	Total/NA	Solid	8015B NM	51297
890-4513-1 MSD	SS08	Total/NA	Solid	8015B NM	51297

Prep Batch: 51297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4513-1	SS08	Total/NA	Solid	8015NM Prep	
890-4513-2	SS08A	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

GC Semi VOA (Continued)

Prep Batch: 51297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4513-3	SS09	Total/NA	Solid	8015NM Prep	
890-4513-4	SW06	Total/NA	Solid	8015NM Prep	
890-4513-5	SW07	Total/NA	Solid	8015NM Prep	
MB 880-51297/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51297/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51297/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4513-1 MS	SS08	Total/NA	Solid	8015NM Prep	
890-4513-1 MSD	SS08	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4513-1	SS08	Total/NA	Solid	8015 NM	
890-4513-2	SS08A	Total/NA	Solid	8015 NM	
890-4513-3	SS09	Total/NA	Solid	8015 NM	
890-4513-4	SW06	Total/NA	Solid	8015 NM	
890-4513-5	SW07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 51313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4513-1	SS08	Soluble	Solid	DI Leach	
890-4513-2	SS08A	Soluble	Solid	DI Leach	
890-4513-3	SS09	Soluble	Solid	DI Leach	
890-4513-4	SW06	Soluble	Solid	DI Leach	
890-4513-5	SW07	Soluble	Solid	DI Leach	
MB 880-51313/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51313/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51313/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27148-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-27148-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-27151-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-27151-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 51409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4513-1	SS08	Soluble	Solid	300.0	51313
890-4513-2	SS08A	Soluble	Solid	300.0	51313
890-4513-3	SS09	Soluble	Solid	300.0	51313
890-4513-4	SW06	Soluble	Solid	300.0	51313
890-4513-5	SW07	Soluble	Solid	300.0	51313
MB 880-51313/1-A	Method Blank	Soluble	Solid	300.0	51313
LCS 880-51313/2-A	Lab Control Sample	Soluble	Solid	300.0	51313
LCSD 880-51313/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51313
880-27148-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	51313
880-27148-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	51313
880-27151-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	51313
880-27151-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	51313

Lab Chronicle

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Client Sample ID: SS08
Date Collected: 04/13/23 09:40
Date Received: 04/13/23 14:14

Lab Sample ID: 890-4513-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	51325	04/17/23 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51362	04/18/23 17:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51508	04/19/23 12:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			51371	04/18/23 09:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51297	04/17/23 09:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51269	04/17/23 12:47	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	51313	04/17/23 12:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51409	04/17/23 23:29	SMC	EET MID

Client Sample ID: SS08A
Date Collected: 04/13/23 09:45
Date Received: 04/13/23 14:14

Lab Sample ID: 890-4513-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51325	04/17/23 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51362	04/18/23 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51508	04/19/23 12:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			51371	04/18/23 09:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51297	04/17/23 09:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51269	04/17/23 13:54	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51313	04/17/23 12:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51409	04/17/23 23:33	SMC	EET MID

Client Sample ID: SS09
Date Collected: 04/13/23 09:50
Date Received: 04/13/23 14:14

Lab Sample ID: 890-4513-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	51325	04/17/23 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51362	04/18/23 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51508	04/19/23 12:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			51371	04/18/23 09:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51297	04/17/23 09:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51269	04/17/23 14:17	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51313	04/17/23 12:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51409	04/17/23 23:38	SMC	EET MID

Client Sample ID: SW06
Date Collected: 04/13/23 10:30
Date Received: 04/13/23 14:14

Lab Sample ID: 890-4513-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51325	04/17/23 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51362	04/18/23 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51508	04/19/23 12:34	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Client Sample ID: SW06

Date Collected: 04/13/23 10:30
Date Received: 04/13/23 14:14

Lab Sample ID: 890-4513-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			51371	04/18/23 09:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51297	04/17/23 09:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51269	04/17/23 14:39	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	51313	04/17/23 12:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51409	04/17/23 23:42	SMC	EET MID

Client Sample ID: SW07

Date Collected: 04/13/23 11:10
Date Received: 04/13/23 14:14

Lab Sample ID: 890-4513-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	51325	04/17/23 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51362	04/18/23 19:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51508	04/19/23 12:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			51371	04/18/23 09:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51297	04/17/23 09:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51269	04/17/23 15:02	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	51313	04/17/23 12:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51409	04/17/23 23:47	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: PLU 387H

Job ID: 890-4513-1
SDG: 03C1558205

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4513-1	SS08	Solid	04/13/23 09:40	04/13/23 14:14	0.5
890-4513-2	SS08A	Solid	04/13/23 09:45	04/13/23 14:14	1
890-4513-3	SS09	Solid	04/13/23 09:50	04/13/23 14:14	0.5
890-4513-4	SW06	Solid	04/13/23 10:30	04/13/23 14:14	0 - 2
890-4513-5	SW07	Solid	04/13/23 11:10	04/13/23 14:14	0 - 2

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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: _____

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(970) 319-4364	Email:	Garrett.Green@Exxonmobile.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:	PLU 387H	Turn Around	
Project Number:	03C1558205	☒ Routine ☐ Rush	
Project Location:	32.1376064 -103.9478	Due Date:	5days
Sampler's Name:	Mariana O'Dell	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:	TWN007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	BTEX	TPH
SS08	S	04/13/23	9:40	0.5'	G	1				
SS08A			9:45	1.0'		1				
SS09			9:50	0.5'		1				
SW06			10:30	0-2'	C	1				
SW07			11:10	0-2'	C	1				

890-4513 Chain of Custody

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 #:
NMAP1823448856

Cost center:
1140441001

API:
30-015-41185

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 M. O'Dell		4.13.23 1414	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4513-1
SDG Number: 03C1558205

Login Number: 4513
List Number: 1
Creator: Clifton, Cloe

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: 890-4513-1
SDG Number: 03C1558205

Login Number: 4513
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 04/17/23 08:35 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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.	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	

ENSOLUM

APPENDIX C

NMOCD Notifications

From: Green, Garrett J
To: Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Cc: DelawareSpills /SM; Tacoma Morrissey
Subject: XTO - Sampling Notification (Week of 4/10/23 - 4/14/23)
Date: Thursday, April 6, 2023 10:35:58 AM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of April 10, 2023.

Wednesday
- PLU CVX JV 018H / NAB1705937661
- JRU 17 CTB/ nAPP2226628060
- BEU 156 Fire / nAPP2304448906

Thursday
- PLU CVX JV 018H / NAB1705937661
- JRU 17 CTB/ nAPP2226628060
- PLU 387H / NMAP1823448856

Friday
- PLU 387H / NMAP1823448856

Thank you,

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

ENSOLUM

APPENDIX C
REMEDIATION WORK PLAN; SEPTMBER 27, 2023

ENSOLUM

September 27, 2023

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

Re: Remediation Work Plan
Poker Lake Unit 387 Battery
Incident Number NMAP1823448856
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan* (*Work Plan*) as a follow up to the *Closure Request* dated June 15, 2023. This *Work Plan* proposes to complete additional depth to groundwater determination activities at the Poker Lake Unit 387 Battery (Site) in response to the New Mexico Oil Conservation Division (NMOCD) denial of the June 15, 2023, *Closure Request*. In the denial, NMOCD expressed concern that depth to groundwater was not adequately determined. The following *Work Plan* proposes to install a soil boring within 0.5 miles of the Site to investigate depth to groundwater and confirm the Closure Criteria at the Site.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 13, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.137664°, -103.841930°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On August 9, 2018, corrosion in the saltwater disposal (SWD) riser caused the release of 631 barrels (bbls) of produced water onto the adjacent pasture and lease road. The area around the riser had been previously excavated for upgrades. The majority of the released fluid was contained within the open excavation; however, some of the fluid flowed east along the lease road. Vacuum trucks were dispatched to the Site and recovered 540 bbls of produced water from the open excavation and 60 bbls from the ground surface. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 on August 22, 2018. The release was assigned Remediation Permit Number (RP) Number 2RP-4946 and Incident Number NMAP1823448856.

The release is included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the NMOCD effective November 13, 2018. The purpose of the Compliance Agreement is to ensure that reportable releases that occurred prior to or near August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018.

BACKGROUND

The *Closure Request* detailed site characterization according to Table 1, Closure Criteria for Soils Impacted by a Release, of 19.15.29 of the NMAC. Results from the site characterization are presented on page 3 of the Form C-141, Site Assessment/Characterization.

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

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

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

During October and November 2018, delineation and excavation activities were conducted at the Site to address the impacted soil resulting from the August 9, 2018, produced water release. Impacted soil was excavated to the extent possible; however, an estimated 90 cubic yards of impacted soil were left in place for compliance with XTO safety policy regarding earth-moving activities within two feet of active production equipment and pipelines. This policy was enforced where impacted soil was identified within two feet of the active SWD riser and pipelines. The impacted soil left in-place was laterally and vertically delineated to below the Site Closure Criteria. Additional details regarding the delineation and excavation activities can be referenced in the *Deferral Request,* submitted to NMOCD on April 11, 2019.

On March 16, 2023, NMOCD denied the *Deferral Request* for Incident Number NMAP1823448856 for the following reasons:

- Deferral request denied. Per 19.15.29.12 C. (3) The responsible party shall remediate the impacted surface area of a release not occurring on a lined, bermed or otherwise contained exploration, development, production or storage site to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards and restore and reclaim the area pursuant to 19.15.29.13 NMAC.
- Samples SW03, SW05, SS01, and SS05 returned results above the reclamation standards of 600 mg/kg for chloride and/or 100 mg/kg for TPH.

In April 2023 additional soil sampling activites were conducted at the Site to confirm the presence or absence of waste containing soil in the top four feet. Closure was requested on June 15, 2023, based on laboratory analytical results for the confirmation and delineation soil samples indicating benzene, BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the reclamation requirement. Additional details regarding the delineation and excavation activities can be referenced in the June 15, 2023, *Closure Request*.

On June 26, 2023, NMOCD denied the *Closure Request* for Incident Number NMAP1823448856 for following reasons:

- *Closure denied. Inadequate depth to groundwater data.*

- *A deferral cannot be granted on a release if the depth to water is <50' depth to groundwater. At that point, a hydrovac/shovel would need to be used to safely remove the contaminated soil around equipment and pipelines. The release will need to be remediated to the strictest closure criteria limits (600 mg/kg, Chlorides, 100 mg/kg TPH, etc.). If you feel the depth to groundwater is >50', a shallow borehole can be drilled to 51' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. A driller's log must be provided in the report to the OCD.*
- *Samples FS01-FS05 and BH03 exceed closure criteria for depth to groundwater <50 feet.*
- *Submit a report via the OCD permitting portal by September 29, 2023.*

Based on the lack of any verbiage regarding the Closure Criteria NMOCD's denial of the April 19, 2019 *Deferral Request*, it appeared the Closure Criteria had been accepted. The *Deferral Request* was denied due to several soil samples not meeting the reclamation requirement, not that the strictest Table I Closure Criteria needed to be applied to the entire Site. However, to ensure closure of the release and no further action required for Incident Number NMAP1823448856, XTO will address Closure Criteria by advancing a soil boring to confirm depth to groundwater is greater than 100 feet bgs at the Site.

PROPOSED REMEDIATION WORKPLAN

In order to confirm depth to groundwater is greater than 100 feet bgs at the Site, XTO proposes to advance a soil boring to a depth of 105 feet bgs within 0.5 miles of the Site. A field geologist will log and describe soils continuously. The soil boring will be left open for over 72 hours to allow for equilibration of groundwater levels within the temporary boring casing. After the 72-hour waiting period, depth to groundwater will be assessed and the soil boring will be backfilled following New Mexico Office of the State Engineer (NMOSE) approved procedures. A well record or soil boring log will be included in the follow up Closure Report.

XTO will complete the soil boring within 90 days of the date of approval of this *Work Plan* by the NMOCD and submit a *Closure Request Addendum* within 30 days of completing the soil boring. XTO believes this *Work Plan* is protective of human health, the environment, and groundwater and respectfully requests approval of this *Work Plan* for Incident Number NMAP1823448856.

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

Sincerely,
Ensolum, LLC

T Morrissey

Aimee Cole
Senior Managing Geologist

Ashley L. Ager

Ashley Ager, P.G.
Program Director

cc: Garrett Green, XTO
Tommee Lambert, XTO
Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

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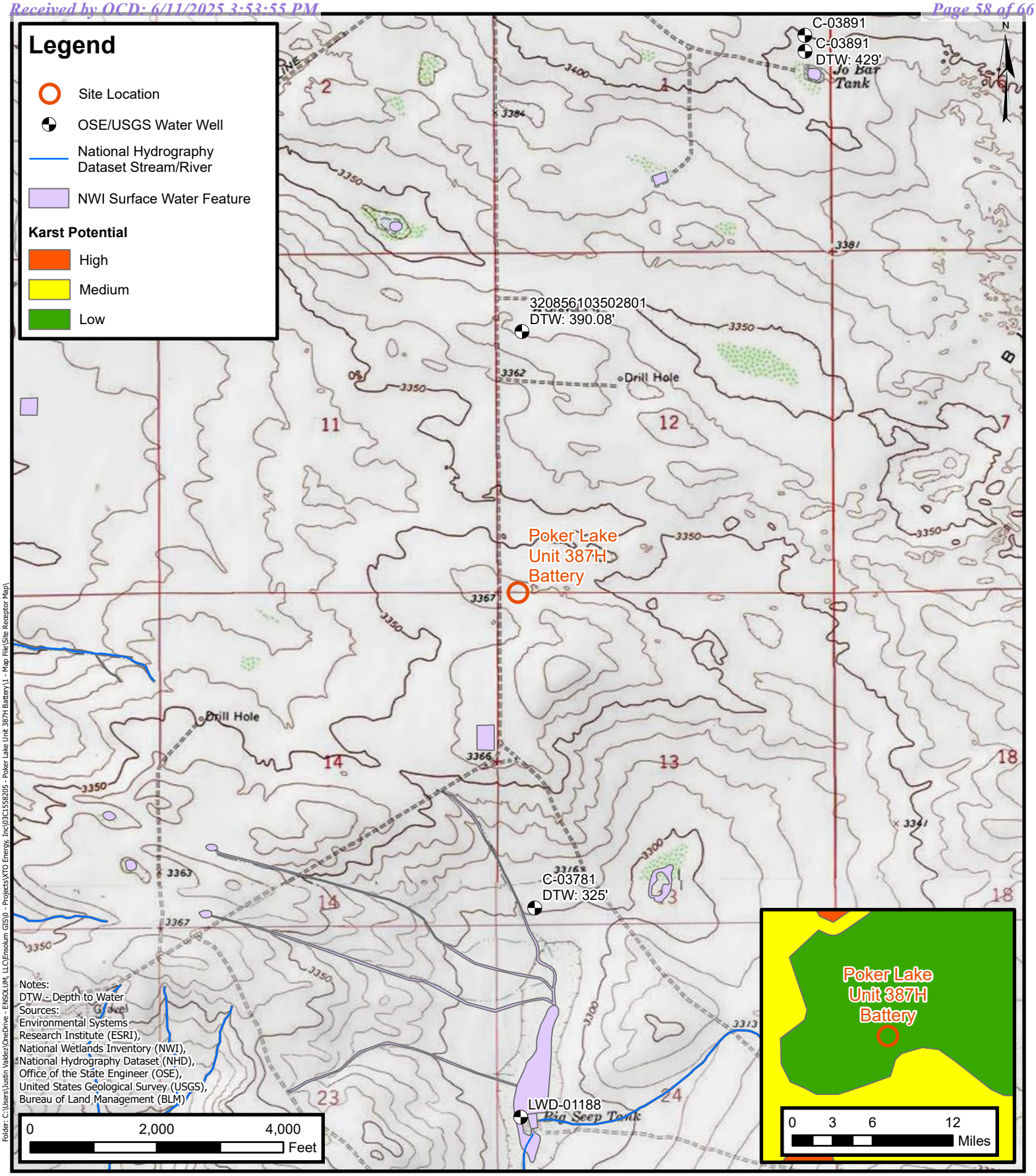
FIGURES



Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558205 - Poker Lake Unit 387H Battery\1 - Map Files\Site Receptor Map\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc.
Poker Lake Unit 387H Battery
Incident Number: NMAP1823448856.
Section 13, Township 25 South, Range 30
East Eddy County, New Mexico

FIGURE 1

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Santa Fe, NM 87505

QUESTIONS

Action 473424

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473424
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nMAP1823448856**
Incident Name	**NMAP1823448856 POKER LAKE UNIT #387H @ 30-015-41185**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-41185] POKER LAKE UNIT #387H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	POKER LAKE UNIT #387H
Date Release Discovered	08/09/2018
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications 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	Cause: Corrosion | Injection Header | Produced Water | Released: 631 BBL | Recovered: 600 BBL | Lost: 31 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473424
	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	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 06/11/2025

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473424
	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	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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 ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	7820
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	166
GRO+DRO (EPA SW-846 Method 8015M)	145
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
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	09/28/2018
On what date will (or did) the final sampling or liner inspection occur	04/13/2023
On what date will (or was) the remediation complete(d)	04/13/2023
What is the estimated surface area (in square feet) that will be reclaimed	13300
What is the estimated volume (in cubic yards) that will be reclaimed	148
What is the estimated surface area (in square feet) that will be remediated	13300
What is the estimated volume (in cubic yards) that will be remediated	148
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473424
	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	*Not answered.*
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	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360-Red Bluff Facility in Orla, TX
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: 06/11/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473424
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473424
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**473440**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**04/13/2023**
What was the (estimated) number of samples that were to be gathered	**5**
What was the sampling surface area in square feet	**1000**

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	13300
What was the total volume (cubic yards) remediated	148
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	13300
What was the total volume (in cubic yards) reclaimed	148
Summarize any additional remediation activities not included by answers (above)	A soil boring installed within 0.43 miles of the Site confirmed depth to groundwater greater than 105 feet bgs; therefore, the Site-specific Closure Criteria presented in the original Closure Request was correctly applied. Impacted soil identified has been removed. The area will be reseeded with BLM approved seed mixture.

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: 06/11/2025

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QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	5380
	Action Number: 473424
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473424
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	7/23/2025