



November 3, 2025

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

**Re: Deferral Request  
Corral Canyon Expansion  
Incident Numbers nAPP2512841799  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document assessment, liner integrity inspection, delineation, and soil sampling activities at the Corral Canyon Expansion (Site). The purpose of the remedial activities was to assess for the presence or absence of impacts to soil following a produced water release within a steel, lined containment. The containment houses active tank batteries and associated production equipment and process piping. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing remediation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2512841799 until the Site is reconstructed and/or the well pad is abandoned.

### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit P, Section 05, Township 25 South, Range 29 East in Eddy County, New Mexico (32.153507°, -103.999472°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 7, 2025, corrosion of a produced water pipeline coupling resulted in the release of 10 barrels (bbls) of produced water into a steel, lined containment with active production equipment and tanks. A vacuum truck was dispatched to the Site to recover free-standing fluid, and all released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Notification of Release (NOR) on May 8, 2025, and subsequently submitted an Initial C-141 Application (C-141) on May 9, 2025. The release was assigned Incident Number nAPP2512841799.

### **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

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

Depth to groundwater at the Site is estimated to be between 51 feet below ground surface (bgs) and 100 feet bgs based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is a New Mexico Office of the State Engineer (NMOSE) permitted well

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(C-4324, POD 8), located approximately 0.08 miles south of the Site. The soil boring was advanced on July 21, 2019, to a total depth of 70 feet bgs. Groundwater was first encountered at 65 feet bgs. These wells were plugged on January 5, 2022. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse is a dry wash located 1,833 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by potentially unstable geology (medium potential karst designation area).

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

## **LINER INTEGRITY INSPECTION ACTIVITIES**

A 48-hour advanced notice to conduct a liner inspection was submitted to the NMOCD on May 28, 2025. A liner integrity inspection was conducted by Ensolum personnel on June 4, 2025. Though the 10 bbl release was limited in aerial extent the inspection was conducted for the entirety of the steel, lined containment. Liner inspection results indicated a small tear was identified on the liner floor. No damage or peeling of the liner along the walls was observed. Delineation soil sampling activities were warranted at the Site. Photographic documentation of the inspection is included in Appendix B.

## **DELINeATION SOIL SAMPLING ACTIVITIES**

Between June 4 and July 14, 2025, Ensolum personnel returned to the Site to conduct delineation activities. Four delineation soil samples, SS01 through SS04, were collected around the lined containment at 0 feet bgs (surface) to assess the lateral extent of the release. One borehole (BH01) was advanced via hand auger to a terminal depth of 3 feet bgs in the location of the tear in the liner. Discrete soil samples were collected from the borehole at depths ranging from 0.5 feet to 3 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations of the soil samples collected from the borehole were logged on a lithologic/soil sampling log, which is included in Appendix C. The delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. The liner was patched following the completion of the borehole. Photographic documentation of all Site activities are included in Appendix B. Due to the visible dirt in the containment, blown in from recent winds, the liner was re-washed in August. Photos obtained from the operations group are included in the photolog however, they did not utilize geolocation.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the Site location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New

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Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil sample BH01A, collected at 1-foot bgs, indicated chloride concentrations exceeded the Site Closure Criteria. Analytical results for all other soil samples collected indicated all COCs were in compliance with the Site Closure Criteria. This includes delineation soil samples SS01 through SS04, successfully confirming the release did not breach the edges of the steel lined containment and, BH01, collected at 2 feet bgs, successfully defining the vertical extent of the impacts beneath the liner. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included in Appendix D.

## DEFERRAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment located within a steel, lined containment that houses active production equipment and process piping. The requested area of deferral is defined laterally through soil samples SS01 through SS04, collected at 0 feet bgs, and vertically through soil sample BH01 collected at 2 feet bgs. The impacted soil identified in the area of BH01 at a depth of 1-foot bgs contains chloride concentrations that exceed Closure Criteria. An estimated, maximum 675 cubic yards of chloride impacted soil remains beneath the liner, assuming impacts extend to the 9,100 square-foot extent of the containment. It is likely that this is an overestimation, and additional delineation will be completed at the time of pad abandonment or reconstruction. The deferral area and delineation soil sample locations are presented on Figure 2.

XTO does not believe deferment of the remaining 675 cubic yards of impacted soil will result in imminent risk to human health, the environment, or groundwater, and the impacted soil remaining in place is limited in area and vertical extent. The impacted soil is limited to the area directly below the lined containment, where remediation would require a major facility deconstruction. Based on the presence of active production equipment, tank batteries, and process piping and the complete lateral and vertical definition of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number nAPP2512841799 until the final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely,  
**Ensolum, LLC**



Jeremy Reich  
Project Geologist



Benjamin J. Belill  
Senior Geologist

cc: Dale Woodall, XTO  
Richard Kotzur, XTO  
BLM

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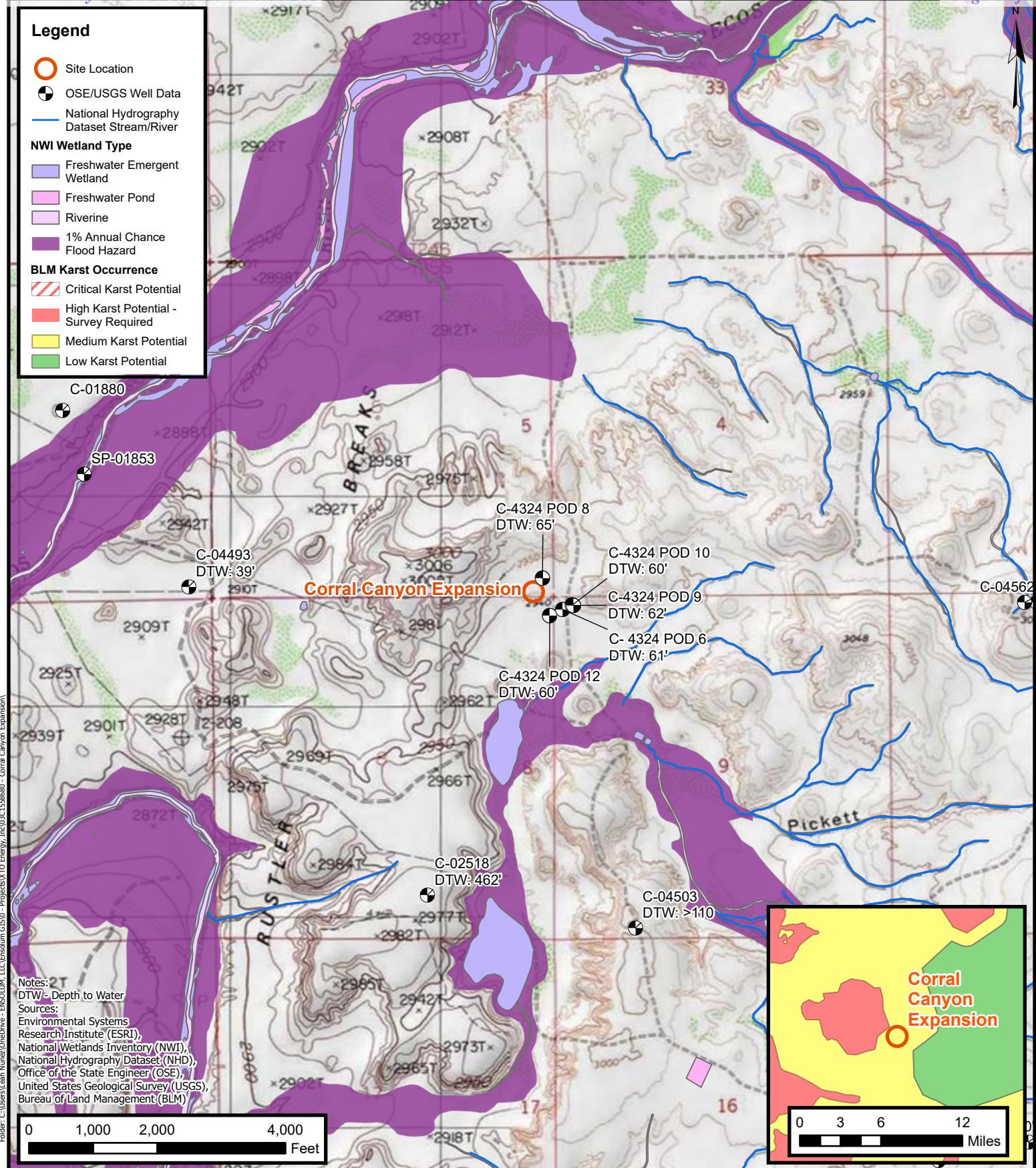
Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Table 1 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Lithologic / Soil Sampling Log
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E Spill Volume Calculation



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## FIGURES

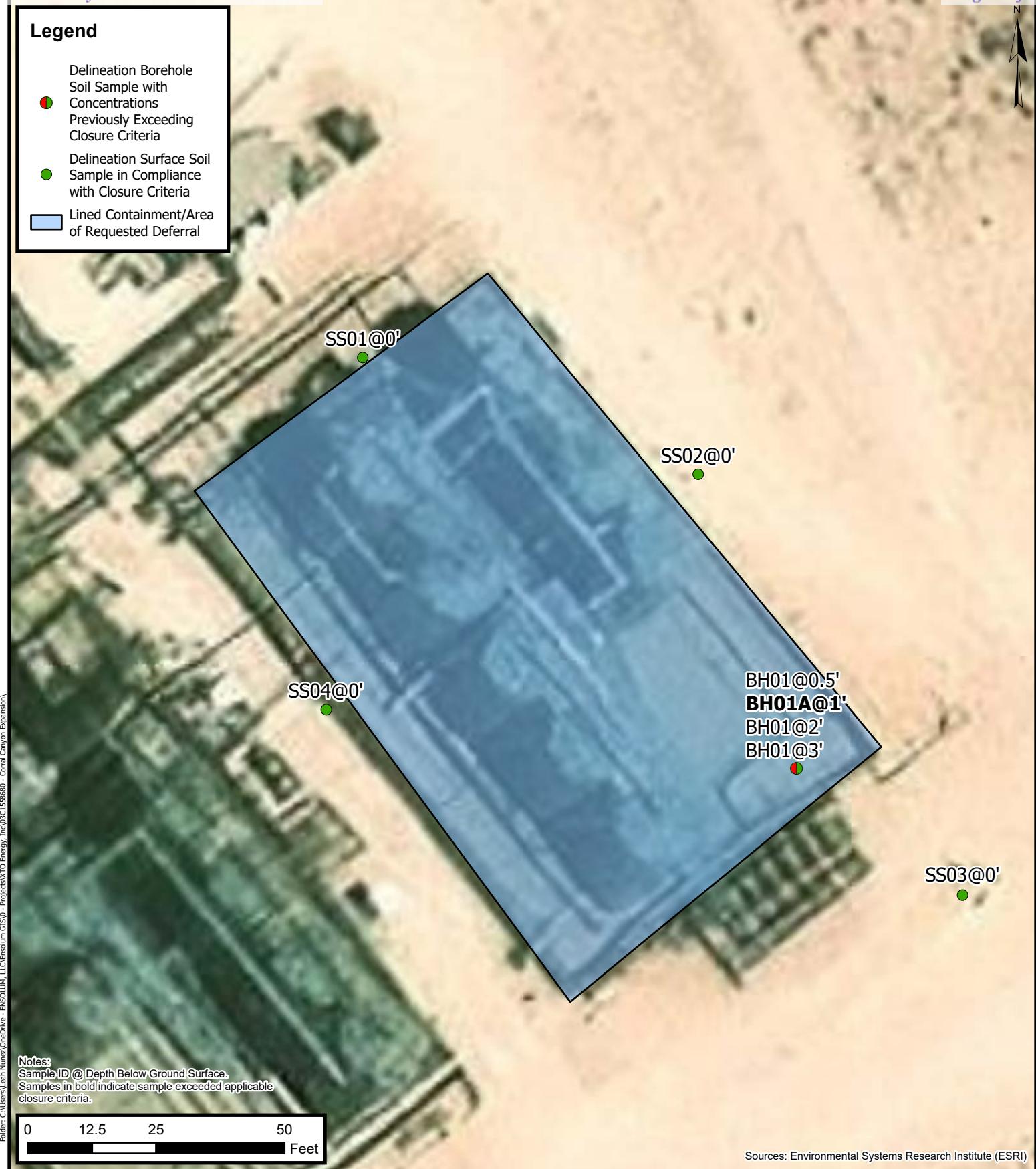


## Site Receptor Map

XTO Energy, Inc  
 Corral Canyon Expansion  
 Incident Number: nAPP2512841799  
 Unit P, Section 05, T 25S, R 29E  
 Eddy County, New Mexico



**FIGURE**  
**1**



## Delineation Soil Sample Locations

XTO Energy, Inc  
Corral Canyon Expansion  
Incident Number: nAPP2512841799  
Unit P, Section 05, T 25S, R 29E  
Eddy County, New Mexico

**FIGURE**  
**2**



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## TABLES



TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
Corral Canyon Expansion  
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              | NE              | 100               | 600              |
| Delineation Soil Samples                       |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01   | 07/01/2025  | 0                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | <16.0            |
| SS02   | 07/01/2025  | 0                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 16.0             |
| SS03   | 07/01/2025  | 0                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 96.0             |
| SS04   | 07/01/2025  | 0                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 80.0             |
| BH01   | 06/04/2025  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 576              |
| BH01A  | 06/04/2025  | 1                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 2,350            |
| BH01   | 07/14/2025  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 192              |
| BH01   | 07/14/2025  | 3                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 128              |

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



## APPENDIX A

### Referenced Well Records



# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

|   |   |  |   |                            |   |                                    |  |                          |
|---|---|--|---|----------------------------|---|------------------------------------|--|--------------------------|
| 1. GENERAL AND WELL LOCATION  | OSE POD NO. (WELL NO.)<br>POD 8 (MW02)  |  | WELL TAG ID NO.   |                            | OSE FILE NO(S).<br>C-4324                               |                                    |  |                          |
|   | WELL OWNER NAME(S)<br>XTO Energy, Inc.  |  |   |                            | PHONE (OPTIONAL)<br>432-221-7331                        |                                    |  |                          |
|   | WELL OWNER MAILING ADDRESS<br>522 W Mermond, Suite 704  |  |   |                            | CITY<br>Carlsbad  | STATE<br>NM                        | ZIP<br>88220                               |                          |
|   | WELL<br>LOCATION<br>(FROM GPS)  | DEGREES<br>LATITUDE                    | 32  | MINUTES<br>9               | SECONDS<br>10.01  | N                                  | * ACCURACY REQUIRED: ONE TENTH OF A SECOND |                          |
|   |   | LONGITUDE                              | 103   | 59                         | 54.38   | W                                  | * DATUM REQUIRED: WGS 84                   |                          |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE<br>South East Quarter of South East Quarter of Section 5, Township 25 South, Range 29 East, Eddy County, New Mexico |   |  |   |                            |   |                                    |  |                          |
| 2. DRILLING & CASING INFORMATION  | LICENSE NO.<br>1664   | NAME OF LICENSED DRILLER<br>Shawn Cain |   |                            | NAME OF WELL DRILLING COMPANY<br>Cascade Drilling       |                                    |  |                          |
|   | DRILLING STARTED<br>7/21/2019   | DRILLING ENDED<br>7/21/2019            | DEPTH OF COMPLETED WELL (FT)<br>69  | BORE HOLE DEPTH (FT)<br>70 | DEPTH WATER FIRST ENCOUNTERED (FT)<br>65                |                                    |  |                          |
|   | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED) |  |   |                            | STATIC WATER LEVEL IN COMPLETED WELL (FT)<br>60         |                                    |  |                          |
|   | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD  |  | ADDITIVES – SPECIFY:  |                            |   |                                    |  |                          |
|   | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL                            |  | <input checked="" type="checkbox"/> OTHER – SPECIFY: Sonic                                      |                            |   |                                    |  |                          |
|   | DEPTH (feet bgl)  | BORE HOLE<br>DIAM<br>(inches)          | CASING MATERIAL AND/OR<br>GRADE<br>(include each casing string, and<br>note sections of screen) |                            | CASING<br>CONNECTION<br>TYPE<br>(add coupling diameter) | CASING<br>INSIDE DIAM.<br>(inches) | CASING WALL<br>THICKNESS<br>(inches)       | SLOT<br>SIZE<br>(inches) |
|   | FROM<br>0   | TO<br>70                               | 6   |                            |   |                                    |  |                          |
|   | 0   | 49                                     | 2" PVC Blank  |                            | Flush Thread SCH 40                                     | 2.067                              | .154                                       |                          |
|   | 49  | 69                                     | 2" PVC Screen   |                            | Flush Thread SCH 40                                     | 2.067                              | .154                                       | .020                     |
|   |   |  |   |                            |   |                                    |  |                          |
|   |   |  |   |                            |   |                                    |  |                          |
|   |   |  |   |                            |   |                                    |  |                          |
|   |   |  |   |                            |   |                                    |  |                          |
|   |   |  |   |                            |   |                                    |  |                          |
|   |   |  |   |                            |   |                                    |  |                          |
| 3. ANNULAR MATERIAL   | DEPTH (feet bgl)  | BORE HOLE<br>DIAM. (inches)            | LIST ANNULAR SEAL MATERIAL AND<br>GRAVEL PACK SIZE-RANGE BY INTERVAL                            |                            |   | AMOUNT<br>(cubic feet)             | METHOD OF<br>PLACEMENT                     |                          |
|   | FROM<br>0   | TO<br>2                                | Concrete  |                            |   | .5                                 | Poured                                     |                          |
|   | 2   | 47                                     | Bentonite Chips   |                            |   | 8                                  | Poured                                     |                          |
|   | 47  | 70                                     | 12-20 Sand  |                            |   | 4                                  | Poured                                     |                          |
|   |   |  |   |                            |   |                                    |  |                          |
|   |   |  |   |                            |   |                                    |  |                          |
|   |   |  |   |                            |   |                                    |  |                          |
|   |   |  |   |                            |   |                                    |  |                          |

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 04/30/19)

|          |               |                 |   |             |        |
|----------|---------------|-----------------|---|-------------|--------|
| FILE NO. | C-4324        | POD NO.         | 8 | TRN NO.     | 154446 |
| LOCATION | 25S.29E.5.444 | WELL TAG ID NO. |   | PAGE 1 OF 2 |        |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

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-4323 POD 8 (MW02)  
 Well owner: XTO Energy, Inc. Phone No.: 432-221-7331  
 Mailing address: 522 W Mermod Suit 704  
 City: Carlsbad State: NM 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: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge
- 4) Date well plugging began: 1/05/2022 Date well plugging concluded: 1/05/2022
- 5) GPS Well Location: Latitude: 32 deg. 9 min, 10.01 sec  
 Longitude: 103 deg. 59 min, 54.38 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 70.95 ft below ground level (bgl),  
 by the following manner: weighted tape
- 7) Static water level measured at initiation of plugging: 63.68 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 2/26/2021
- 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):

OSE DTI JAN 7 2022 PM11:39

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:**

| <u>Depth</u><br>(ft bgl) | <u>Plugging<br/>Material Used</u><br>(include any additives used) | <u>Volume of<br/>Material Placed</u><br>(gallons) | <u>Theoretical Volume<br/>of Borehole/ Casing</u><br>(gallons) | <u>Placement<br/>Method</u><br>(tremie pipe,<br>other) | <u>Comments</u><br>("casing perforated first", "open<br>annular space also plugged", etc.) |
|--------------------------|---|---|--|--|--|
| 0-70.9'                  | Portland<br>Type I/II Neat Cement                                 | 27 gallons  | 12.3 gallons   | tremie   |  |

DSE DJI JAN 7 2022 PM1:39

**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

01/07/2022

**Signature of Well Driller**

Date

# 2022-1-7\_C-4323-pod8\_WD-11 Plugging Record

Final Audit Report

2022-01-07

|                 |  |
|-----------------|--|
| Created:        | 2022-01-07                                   |
| By:             | Lucas Middleton (lucas@atkinseng.com)        |
| Status:         | Signed                                       |
| Transaction ID: | CBJCHBCAABAANmYNHH8R5wc4ezc9CnfxGGDfkGmuMWbH |

## "2022-1-7\_C-4323-pod8\_WD-11 Plugging Record" History

- 📄 Document created by Lucas Middleton (lucas@atkinseng.com)  
2022-01-07 - 5:18:10 PM GMT- IP address: 69.21.248.123
- ✉️ Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2022-01-07 - 5:18:35 PM GMT
- 👁️ Email viewed by Jack Atkins (jack@atkinseng.com)  
2022-01-07 - 5:19:01 PM GMT- IP address: 64.90.153.232
- ✍️ Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2022-01-07 - 5:19:15 PM GMT - Time Source: server- IP address: 64.90.153.232
- ✅ Agreement completed.  
2022-01-07 - 5:19:15 PM GMT

QSE DII JAN 7 2022 PM1:39





## APPENDIX B

### Photographic Log

**Photographic Log**

XTO Energy, Inc

Corral Canyon Expansion

nAPP2512841799



Photograph: 1

Date: 6/4/2025

Description: Liner inspection activities

View: Northeast

Photograph: 2

Date: 6/4/2025

Description: Liner inspection activities

View: South



Photograph: 3

Date: 6/4/2025

Description: Liner inspection activities

View: Northwest

Photograph: 4

Date: 6/4/2025

Description: Delineation activities; near BH01

View: Southwest

**Photographic Log**

XTO Energy, Inc

Corral Canyon Expansion

nAPP2512841799



Photograph: 5 Date: 7/1/2025  
Description: Delineation activities; near SS03  
View: North



Photograph: 6 Date: 7/1/2025  
Description: Delineation activities; near SS02  
View: Southeast



Photograph: 7 Date: 7/14/2025  
Description: Delineation activities; near BH01  
View: Southwest



Photograph: 8 Date: 7/21/2025  
Description: Liner Repair; near BH01  
View: Southwest

**Photographic Log**

XTO Energy, Inc

Corral Canyon Expansion

nAPP2512841799



Photograph: 9

Date: 8/8/2025

Description: Liner powerwashing activities

View: North



Photograph: 10

Date: 8/8/2025

Description: Liner powerwashing activities

View: Southeast



Photograph: 11

Date: 8/8/2025

Description: Liner powerwashing activities

View: Northwest



Photograph: 12

Date: 8/8/2025

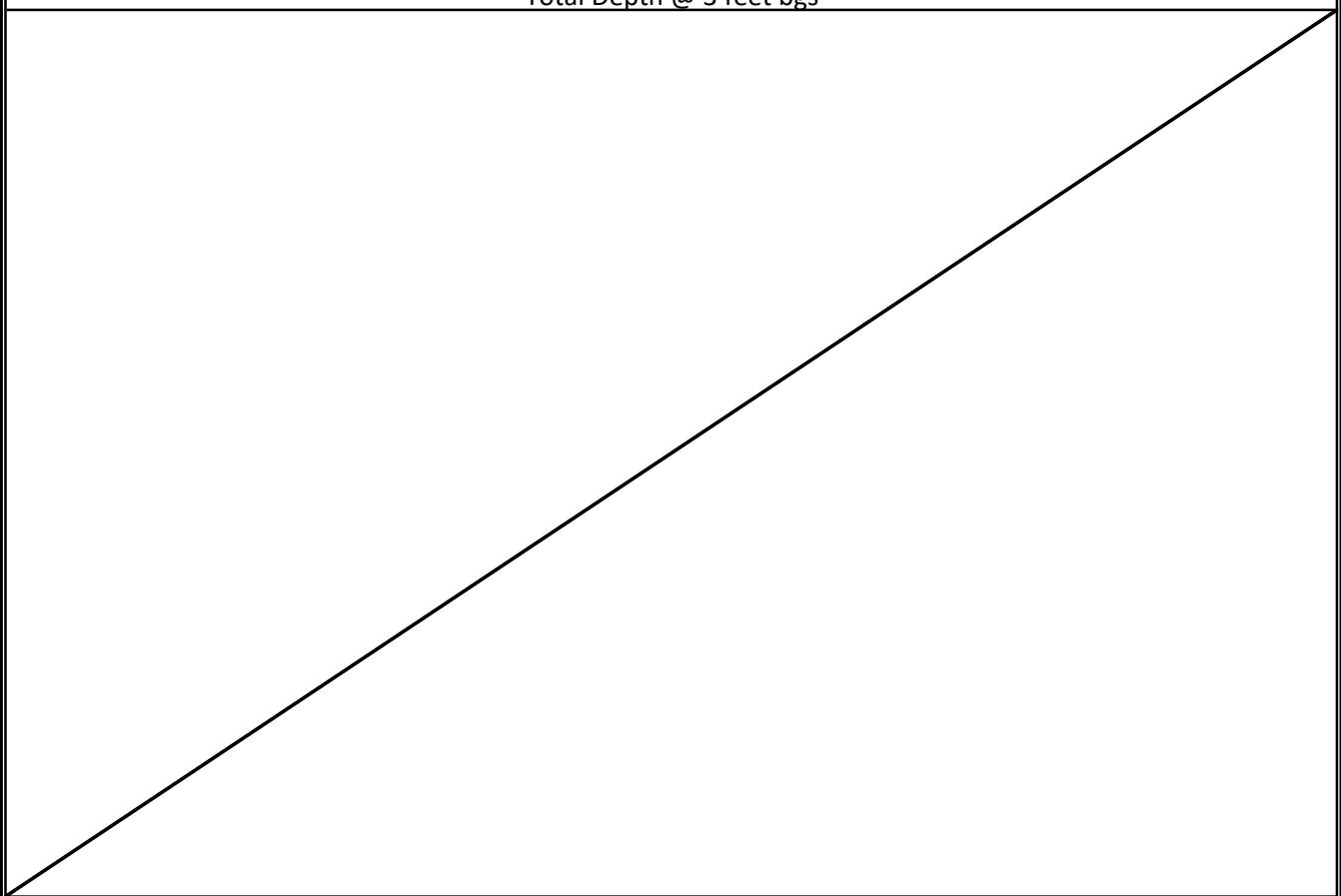
Description: Liner powerwashing activities

View: West



## APPENDIX C

### Lithologic Soil Sampling Logs

|  <b>ENSOLUM</b>  |                |             |          |           |                       |                |                  | Sample Name: BH01   | Date: 6/4 - 7/14/2025 |  |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|-----------------------|--|--|
| Site Name: Corral Canyon Expansion  |                |             |          |           |                       |                |                  |   |                       |  |  |
| Incident Number: nAPP2512841799   |                |             |          |           |                       |                |                  |   |                       |  |  |
| Job Number: 03C1558680  |                |             |          |           |                       |                |                  |   |                       |  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Azuka Udeh   | Method: Hand Auger    |  |  |
| Coordinates: 32.153769, -103.999739   |                |             |          |           | Hole Diameter: 3.5"   |                |                  | Total Depth: 3'   |                       |  |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. |                |             |          |           |                       |                |                  |   |                       |  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions   |                       |  |  |
| Dry   | 795            | 0.2         | N        | BH01      | 0.5                   | 0              | CCHE             | (0-3') CALICHE, dry, tan, poorly consolidated, very silty, no stain, no odor. |                       |  |  |
| Dry   | 537            | 0.0         | N        | BH01A     | 1                     | 1              |                  |   |                       |  |  |
| Dry   | 365            | 1.1         | N        | BH01      | 2                     | 2              |                  |   |                       |  |  |
| Dry   | 319            | 1.0         | N        | BH01      | 3                     | 3              |                  |   |                       |  |  |
| Total Depth @ 3 feet bgs  |                |             |          |           |                       |                |                  |   |                       |  |  |
|   |                |             |          |           |                       |                |                  |   |                       |  |  |



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation



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

July 10, 2025

JEREMY REICH  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: CORRAL CANYON EXPANSION

Enclosed are the results of analyses for samples received by the laboratory on 07/03/25 12:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

|                   |                          |                     |                  |
|-------------------|--------------------------|---------------------|------------------|
| Received:         | 07/03/2025               | Sampling Date:      | 07/01/2025       |
| Reported:         | 07/10/2025               | Sampling Type:      | Soil             |
| Project Name:     | CORRAL CANYON EXPANSION  | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C1558680               | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.153538-103.999539 |                     |                  |

**Sample ID: SS01 0 (H254014-01)**

| BTEX 8021B     |  | mg/kg  |                 | Analyzed By: JH |              |      |            |               |      |           |
|----------------|--|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte        |  | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       |  | <0.050 | 0.050           | 07/03/2025      | ND           | 1.92 | 96.0       | 2.00          | 3.51 |           |
| Toluene*       |  | <0.050 | 0.050           | 07/03/2025      | ND           | 1.97 | 98.7       | 2.00          | 3.26 |           |
| Ethylbenzene*  |  | <0.050 | 0.050           | 07/03/2025      | ND           | 2.02 | 101        | 2.00          | 1.34 |           |
| Total Xylenes* |  | <0.150 | 0.150           | 07/03/2025      | ND           | 5.96 | 99.3       | 6.00          | 1.64 |           |
| Total BTEX     |  | <0.300 | 0.300           | 07/03/2025      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

| Chloride, SM4500Cl-B |  | mg/kg  |                 | Analyzed By: KH |              |     |            |               |      |           |
|----------------------|--|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              |  | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             |  | <16.0  | 16.0            | 07/07/2025      | ND           | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |  | mg/kg  |                 | Analyzed By: MS |              |     |            |               |       |           |
|------------------|--|--------|-----------------|-----------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte          |  | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      |  | <10.0  | 10.0            | 07/07/2025      | ND           | 197 | 98.4       | 200           | 1.80  |           |
| DRO >C10-C28*    |  | <10.0  | 10.0            | 07/07/2025      | ND           | 200 | 100        | 200           | 0.448 |           |
| EXT DRO >C28-C36 |  | <10.0  | 10.0            | 07/07/2025      | ND           |     |            |               |       |           |

Surrogate: 1-Chlorooctane 86.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.5 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

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

|                              |                               |  |   |   |   |
|------------------------------|-------------------------------|--|---|---|---|
| Relinquished By:             | Date: 1-3-25                  | Received By:   | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:<br>All Results are emailed. Please provide Email address: twarg@ensolum.com |   |   |
| <i>Terry Wargo</i>           | Time: 1440                    | <i>SPodrigney</i>  | BBell@ensolum.com, TMorrissey@ensolum.com,<br>THillard@ensolum.com, KThomason@ensolum.com   |   |   |
| Relinquished By:             | Date:                         | Received By:   | REMARKS: Incident Number: <i>APP 2512841799</i><br>Cost Center: <i>2129321001</i><br>GFCM: 48605000   |   |   |
|                              | Time:                         |  |   |   |   |
| Delivered By: (Circle One)   | Observed Temp. °C <i>0.4</i>  | Sample Condition<br>Cool Intact<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No | CHECKED BY: (Initials) <i>SK</i>  | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/><br>Thermometer ID <i>#443</i> <i>110.0</i> <i>+0.3</i><br>Correction Factor <i>0.02</i> <i>+0.3</i> | Bacteria (only) Sample Condition<br>Cool Intact Observed Temp. °C<br><input type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No<br>Corrected Temp. °C |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C <i>0.4</i> |  |   |   |   |

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

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July 10, 2025

JEREMY REICH  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: CORRAL CANYON EXPANSION

Enclosed are the results of analyses for samples received by the laboratory on 07/03/25 12:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/03/2025      Sampling Date: 07/01/2025  
 Reported: 07/10/2025      Sampling Type: Soil  
 Project Name: CORRAL CANYON EXPANSION      Sampling Condition: Cool & Intact  
 Project Number: 03C1558680      Sample Received By: Shalyn Rodriguez  
 Project Location: XTO 32.153538-103.999539

**Sample ID: SS 02 0 (H254015-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/03/2025 | ND              | 1.92 | 96.0       | 2.00          | 3.51 |           |  |
| Toluene*       | <0.050 | 0.050           | 07/03/2025 | ND              | 1.97 | 98.7       | 2.00          | 3.26 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/03/2025 | ND              | 2.02 | 101        | 2.00          | 1.34 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/03/2025 | ND              | 5.96 | 99.3       | 6.00          | 1.64 |           |  |
| Total BTEX     | <0.300 | 0.300           | 07/03/2025 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID)      94.5 %      71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: KH |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 16.0   | 16.0            | 07/07/2025 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 07/07/2025 | ND              | 197 | 98.4       | 200           | 1.80  |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/07/2025 | ND              | 200 | 100        | 200           | 0.448 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/07/2025 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane      70.8 %      44.4-145

Surrogate: 1-Chlorooctadecane      64.1 %      40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

|                   |                          |                     |                  |
|-------------------|--------------------------|---------------------|------------------|
| Received:         | 07/03/2025               | Sampling Date:      | 07/01/2025       |
| Reported:         | 07/10/2025               | Sampling Type:      | Soil             |
| Project Name:     | CORRAL CANYON EXPANSION  | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C1558680               | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.153538-103.999539 |                     |                  |

**Sample ID: SS 03 0 (H254015-02)**

| <b>BTEX 8021B</b> |  | <b>mg/kg</b> |                 | <b>Analyzed By: JH</b> |              |      |            |               |      |           |
|-------------------|--|--------------|-----------------|------------------------|--------------|------|------------|---------------|------|-----------|
| Analyte           |  | Result       | Reporting Limit | Analyzed               | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*          |  | <0.050       | 0.050           | 07/03/2025             | ND           | 1.92 | 96.0       | 2.00          | 3.51 |           |
| Toluene*          |  | <0.050       | 0.050           | 07/03/2025             | ND           | 1.97 | 98.7       | 2.00          | 3.26 |           |
| Ethylbenzene*     |  | <0.050       | 0.050           | 07/03/2025             | ND           | 2.02 | 101        | 2.00          | 1.34 |           |
| Total Xylenes*    |  | <0.150       | 0.150           | 07/03/2025             | ND           | 5.96 | 99.3       | 6.00          | 1.64 |           |
| Total BTEX        |  | <0.300       | 0.300           | 07/03/2025             | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

| <b>Chloride, SM4500Cl-B</b> |  | <b>mg/kg</b> |                 | <b>Analyzed By: KH</b> |              |     |            |               |      |           |
|-----------------------------|--|--------------|-----------------|------------------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                     |  | Result       | Reporting Limit | Analyzed               | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>             |  | <b>96.0</b>  | 16.0            | 07/07/2025             | ND           | 432 | 108        | 400           | 3.77 |           |

| <b>TPH 8015M</b> |  | <b>mg/kg</b> |                 | <b>Analyzed By: MS</b> |              |     |            |               |      |           |
|------------------|--|--------------|-----------------|------------------------|--------------|-----|------------|---------------|------|-----------|
| Analyte          |  | Result       | Reporting Limit | Analyzed               | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      |  | <10.0        | 10.0            | 07/07/2025             | ND           | 186 | 93.2       | 200           | 2.21 |           |
| DRO >C10-C28*    |  | <10.0        | 10.0            | 07/07/2025             | ND           | 207 | 103        | 200           | 1.23 |           |
| EXT DRO >C28-C36 |  | <10.0        | 10.0            | 07/07/2025             | ND           |     |            |               |      |           |

Surrogate: 1-Chlorooctane 96.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.2 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

|                   |                          |                     |                  |
|-------------------|--------------------------|---------------------|------------------|
| Received:         | 07/03/2025               | Sampling Date:      | 07/01/2025       |
| Reported:         | 07/10/2025               | Sampling Type:      | Soil             |
| Project Name:     | CORRAL CANYON EXPANSION  | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C1558680               | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.153538-103.999539 |                     |                  |

**Sample ID: SS 04 0 (H254015-03)**

| <b>BTEX 8021B</b> |  | <b>mg/kg</b> |                 | <b>Analyzed By: JH</b> |              |      |            |               |      |           |
|-------------------|--|--------------|-----------------|------------------------|--------------|------|------------|---------------|------|-----------|
| Analyte           |  | Result       | Reporting Limit | Analyzed               | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*          |  | <0.050       | 0.050           | 07/03/2025             | ND           | 1.92 | 96.0       | 2.00          | 3.51 |           |
| Toluene*          |  | <0.050       | 0.050           | 07/03/2025             | ND           | 1.97 | 98.7       | 2.00          | 3.26 |           |
| Ethylbenzene*     |  | <0.050       | 0.050           | 07/03/2025             | ND           | 2.02 | 101        | 2.00          | 1.34 |           |
| Total Xylenes*    |  | <0.150       | 0.150           | 07/03/2025             | ND           | 5.96 | 99.3       | 6.00          | 1.64 |           |
| Total BTEX        |  | <0.300       | 0.300           | 07/03/2025             | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

| <b>Chloride, SM4500Cl-B</b> |  | <b>mg/kg</b> |                 | <b>Analyzed By: KH</b> |              |     |            |               |      |           |
|-----------------------------|--|--------------|-----------------|------------------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                     |  | Result       | Reporting Limit | Analyzed               | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>             |  | <b>80.0</b>  | 16.0            | 07/07/2025             | ND           | 432 | 108        | 400           | 3.77 |           |

| <b>TPH 8015M</b> |  | <b>mg/kg</b> |                 | <b>Analyzed By: MS</b> |              |     |            |               |      |           |
|------------------|--|--------------|-----------------|------------------------|--------------|-----|------------|---------------|------|-----------|
| Analyte          |  | Result       | Reporting Limit | Analyzed               | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      |  | <10.0        | 10.0            | 07/07/2025             | ND           | 186 | 93.2       | 200           | 2.21 |           |
| DRO >C10-C28*    |  | <10.0        | 10.0            | 07/07/2025             | ND           | 207 | 103        | 200           | 1.23 |           |
| EXT DRO >C28-C36 |  | <10.0        | 10.0            | 07/07/2025             | ND           |     |            |               |      |           |

Surrogate: 1-Chlorooctane 95.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.4 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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A handwritten signature in black ink that reads "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

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|   |                                  |   |                                     |   |
|---|----------------------------------|---|-------------------------------------|---|
| Relinquished By:<br><i>Trevor Wargo</i> |                                  | Date: <b>7-3-25</b>   | Received By:<br><i>SpodRigney</i>   | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: <i>fwargo@ensolum.com</i>  |
|   |                                  | Time: <b>1240</b>   |                                     | All Results are emailed. Please provide Email address: <i>BBell@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com</i>  |
| Relinquished By:                        |                                  | Date:   | Received By:                        | REMARKS: Incident Number: <b>NAFF2512841749</b>   |
|   |                                  | Time:   |                                     | Cost Center: <b>2225321001</b><br>GFCM: 48605000  |
| Delivered By: (Circle One)              | Observed Temp. °C<br><b>0.1</b>  | Sample Condition<br>Cool Intact<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input checked="" type="checkbox"/> No | Checked By: (Initials)<br><i>SL</i> | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/><br>Thermometer ID: <b>#110</b> <input type="checkbox"/> #140<br>Correction Factor: <b>0.5C</b> <input type="checkbox"/> 40.3              |
| Sampler - UPS - Bus - Other:            | Corrected Temp. °C<br><b>0.4</b> |   |                                     | Bacteria (only) Sample Condition<br><input type="checkbox"/> Cool Intact Observed Temp. °C<br><input type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C |

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

June 11, 2025

JEREMY REICH  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: CORRAL CANYON EXPANSION

Enclosed are the results of analyses for samples received by the laboratory on 06/05/25 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

|                   |                          |                     |                  |
|-------------------|--------------------------|---------------------|------------------|
| Received:         | 06/05/2025               | Sampling Date:      | 06/04/2025       |
| Reported:         | 06/11/2025               | Sampling Type:      | Soil             |
| Project Name:     | CORRAL CANYON EXPANSION  | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C1558680               | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.153538-103.799539 |                     |                  |

**Sample ID: BH 01 0.5' (H253363-01)**

| <b>BTEX 8021B</b> |        | <b>mg/kg</b>    |            | <b>Analyzed By: JH</b> |      |            |               |       |           |  |
|-------------------|--------|-----------------|------------|------------------------|------|------------|---------------|-------|-----------|--|
| Analyte           | Result | Reporting Limit | Analyzed   | Method Blank           | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*          | <0.050 | 0.050           | 06/05/2025 | ND                     | 2.14 | 107        | 2.00          | 0.317 |           |  |
| Toluene*          | <0.050 | 0.050           | 06/05/2025 | ND                     | 2.14 | 107        | 2.00          | 0.810 |           |  |
| Ethylbenzene*     | <0.050 | 0.050           | 06/05/2025 | ND                     | 2.11 | 106        | 2.00          | 0.855 |           |  |
| Total Xylenes*    | <0.150 | 0.150           | 06/05/2025 | ND                     | 6.27 | 105        | 6.00          | 0.852 |           |  |
| Total BTEX        | <0.300 | 0.300           | 06/05/2025 | ND                     |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

| <b>Chloride, SM4500Cl-B</b> |            | <b>mg/kg</b>    |            | <b>Analyzed By: AC</b> |     |            |               |      |           |  |
|-----------------------------|------------|-----------------|------------|------------------------|-----|------------|---------------|------|-----------|--|
| Analyte                     | Result     | Reporting Limit | Analyzed   | Method Blank           | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| <b>Chloride</b>             | <b>576</b> | 16.0            | 06/06/2025 | ND                     | 416 | 104        | 400           | 3.77 |           |  |

| <b>TPH 8015M</b> |        | <b>mg/kg</b>    |            | <b>Analyzed By: ms</b> |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|------------------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank           | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2025 | ND                     | 193 | 96.5       | 200           | 1.07  |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2025 | ND                     | 187 | 93.7       | 200           | 0.294 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2025 | ND                     |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 73.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.5 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

|                   |                          |                     |                  |
|-------------------|--------------------------|---------------------|------------------|
| Received:         | 06/05/2025               | Sampling Date:      | 06/04/2025       |
| Reported:         | 06/11/2025               | Sampling Type:      | Soil             |
| Project Name:     | CORRAL CANYON EXPANSION  | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C1558680               | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.153538-103.799539 |                     |                  |

**Sample ID: BH 01A 1' (H253363-02)**

| <b>BTEX 8021B</b> |        | <b>mg/kg</b>    |            | <b>Analyzed By: JH</b> |      |            |               |       |           |  |
|-------------------|--------|-----------------|------------|------------------------|------|------------|---------------|-------|-----------|--|
| Analyte           | Result | Reporting Limit | Analyzed   | Method Blank           | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*          | <0.050 | 0.050           | 06/05/2025 | ND                     | 2.14 | 107        | 2.00          | 0.317 |           |  |
| Toluene*          | <0.050 | 0.050           | 06/05/2025 | ND                     | 2.14 | 107        | 2.00          | 0.810 |           |  |
| Ethylbenzene*     | <0.050 | 0.050           | 06/05/2025 | ND                     | 2.11 | 106        | 2.00          | 0.855 |           |  |
| Total Xylenes*    | <0.150 | 0.150           | 06/05/2025 | ND                     | 6.27 | 105        | 6.00          | 0.852 |           |  |
| Total BTEX        | <0.300 | 0.300           | 06/05/2025 | ND                     |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

| <b>Chloride, SM4500Cl-B</b> |             | <b>mg/kg</b>    |            | <b>Analyzed By: AC</b> |     |            |               |      |           |  |
|-----------------------------|-------------|-----------------|------------|------------------------|-----|------------|---------------|------|-----------|--|
| Analyte                     | Result      | Reporting Limit | Analyzed   | Method Blank           | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| <b>Chloride</b>             | <b>2350</b> | 16.0            | 06/06/2025 | ND                     | 416 | 104        | 400           | 3.77 |           |  |

| <b>TPH 8015M</b> |        | <b>mg/kg</b>    |            | <b>Analyzed By: ms</b> |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|------------------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank           | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2025 | ND                     | 193 | 96.5       | 200           | 1.07  |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2025 | ND                     | 187 | 93.7       | 200           | 0.294 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2025 | ND                     |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 77.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.6 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

1-1

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

|                                      |                                    |  |                                     |   |
|--------------------------------------|------------------------------------|--|-------------------------------------|---|
| Relinquished By: <i>Trevor Wargo</i> |                                    | Date: <u>0525</u>  | Received By: <i>SPodriquay</i>      | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:  |
|                                      |                                    | Time: <u>1320</u>  |                                     | All Results are emailed. Please provide Email address: <u>TWargo@ensolum.com</u> ,<br><u>BBell@ensolum.com</u> , <u>TMorrissey@ensolum.com</u> , <u>JReich@ensolum.com</u> ,<br><u>THillard@ensolum.com</u> , <u>KThomason@ensolum.com</u>                        |
| Relinquished By:                     |                                    | Date:  | Received By:                        | REMARKS: Incident Number: <u>Bn APP 2512841799</u>  |
|                                      |                                    | Time:  |                                     | Cost Center: <u>2125321001</u><br>GFCM: 48605000  |
| Delivered By: (Circle One)           | Observed Temp. °C<br><u>-0.9</u>   | Sample Condition<br>Cool Intact<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No | Checked By: (Initials)<br><i>SK</i> | Turnaround Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush<br><u>#40 705</u><br>Thermometer ID: #443<br>Correction Factor: -0.5°C  |
| Sampler - UPS - Bus - Other:         | Corrected Temp. °C<br><u>-0.10</u> |  |                                     | Bacteria (only) Sample Condition<br><input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C<br><input type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No<br>Corrected Temp. °C |

+ Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



---

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

July 16, 2025

JEREMY REICH  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: CORRAL CANYON EXPANSION

Enclosed are the results of analyses for samples received by the laboratory on 07/14/25 16:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/14/2025 Sampling Date: 07/14/2025  
 Reported: 07/16/2025 Sampling Type: Soil  
 Project Name: CORRAL CANYON EXPANSION Sampling Condition: Cool & Intact  
 Project Number: 03C1558680 Sample Received By: Shalyn Rodriguez  
 Project Location: XTO 32.153538-103.999539

**Sample ID: BH 01 (2') (H254181-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/16/2025 | ND              | 2.11 | 106        | 2.00          | 8.86 |           |  |
| Toluene*       | <0.050 | 0.050           | 07/16/2025 | ND              | 2.16 | 108        | 2.00          | 8.14 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/16/2025 | ND              | 2.14 | 107        | 2.00          | 5.48 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/16/2025 | ND              | 6.35 | 106        | 6.00          | 3.96 |           |  |
| Total BTEX     | <0.300 | 0.300           | 07/16/2025 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 192    | 16.0            | 07/15/2025 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 07/15/2025 | ND              | 189 | 94.7       | 200           | 0.536 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/15/2025 | ND              | 197 | 98.7       | 200           | 0.948 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/15/2025 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 83.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.8 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

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

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\*=Accredited Analyte

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A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

| Company Name: <b>ENSOULUM, LLC</b>   |                   | <b>BILL TO</b>              |          | ANALYSIS REQUEST |                 |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
|--|-------------------|-----------------------------|----------|------------------|-----------------|------------------|--|----------|----------|----------|--|----------|-------------|------|------|----------|-------------------|-----------|----------|----------------|-------------|--|--|--|--|-------------|------------|--|--|--|--|--|-----------------|
| Project Manager: <b>JEREMY REICH</b>   |                   | P.O. #:                     |          |                  |                 |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
| Address: <b>601 N MARIENFELD</b>   |                   | Company: <b>XTO</b>         |          |                  |                 |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
| City: <b>MIDLAND</b> State: <b>TX</b> Zip: <b>79701</b>  |                   | Attn: <b>Dale Noddall</b>   |          |                  |                 |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
| Phone #: <b>432 296 0627</b> Fax #:  |                   | Address:                    |          |                  |                 |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
| Project #: <b>08C1558680</b> Project Owner: <b>X70</b>   |                   | City:                       |          |                  |                 |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
| Project Name: <b>CORRAL CANYON EXPANSION</b>   |                   | State: <b></b> Zip: <b></b> |          |                  |                 |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
| Project Location: <b>32.153538 ~103.999539</b>   |                   | Phone #:                    |          |                  |                 |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
| Sampler Name: <b>YODEH AZUKA</b>   |                   | Fax #:                      |          |                  |                 |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
| <table border="1"> <thead> <tr> <th colspan="2">FOR LAB USE ONLY</th> <th rowspan="2">MATERIAL</th> <th rowspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th>Lab I.D.</th> <th>Sample I.D.</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td><b>1</b></td> <td><b>B H01 (2')</b></td> <td><b>91</b></td> <td><b>X</b></td> <td><b>7/14/25</b></td> <td><b>1400</b></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><b>BTEX</b></td> <td><b>TPH</b></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>CHLORIDE</b></td> </tr> </tbody> </table> |                   |                             |          |                  |                 | FOR LAB USE ONLY |  | MATERIAL | PRESERV. | SAMPLING |  | Lab I.D. | Sample I.D. | DATE | TIME | <b>1</b> | <b>B H01 (2')</b> | <b>91</b> | <b>X</b> | <b>7/14/25</b> | <b>1400</b> |  |  |  |  | <b>BTEX</b> | <b>TPH</b> |  |  |  |  |  | <b>CHLORIDE</b> |
| FOR LAB USE ONLY   |                   | MATERIAL                    | PRESERV. | SAMPLING         |                 |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
| Lab I.D.   | Sample I.D.       |                             |          | DATE             | TIME            |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
| <b>1</b>   | <b>B H01 (2')</b> | <b>91</b>                   | <b>X</b> | <b>7/14/25</b>   | <b>1400</b>     |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
|  |                   |                             |          | <b>BTEX</b>      | <b>TPH</b>      |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |
|  |                   |                             |          |                  | <b>CHLORIDE</b> |                  |  |          |          |          |  |          |             |      |      |          |                   |           |          |                |             |  |  |  |  |             |            |  |  |  |  |  |                 |

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|  |                       |   |  |   |   |
|--|-----------------------|---|--|---|---|
| Relinquished By:  | Date: 7/14/25         | Received By:   | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:<br>All Results are emailed. Please provide Email address: |   |   |
| Relinquished By:  | Date: 7/14/25         | Received By:   | REMARKS: Cost Centre: 2125321001<br>GPCM: 48605000 - Spills  |   |   |
| Delivered By: (Circle One)<br>Sampler - UPS - Bus - Other:   | Observed Temp. °C 4.4 | Sample Condition<br>Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No | CHECKED BY:   | Turnaround Time: Standard <input type="checkbox"/><br>Rush <input checked="" type="checkbox"/><br>Thermometer ID #140<br>Correction Factor +0.3°C 48105 | Bacteria (only) Sample Condition<br>Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/><br><input type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No<br>Observed Temp. °C<br>Corrected Temp. °C |

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com).



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

July 16, 2025

JEREMY REICH  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: CORRAL CANYON EXPANSION

Enclosed are the results of analyses for samples received by the laboratory on 07/14/25 16:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/14/2025 Sampling Date: 07/14/2025  
 Reported: 07/16/2025 Sampling Type: Soil  
 Project Name: CORRAL CANYON EXPANSION Sampling Condition: Cool & Intact  
 Project Number: 03C1558680 Sample Received By: Shalyn Rodriguez  
 Project Location: XTO 32.153538-103.999539

**Sample ID: BH 01 (3') (H254182-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/15/2025 | ND              | 2.11 | 106        | 2.00          | 8.86 |           |  |
| Toluene*       | <0.050 | 0.050           | 07/15/2025 | ND              | 2.16 | 108        | 2.00          | 8.14 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2025 | ND              | 2.14 | 107        | 2.00          | 5.48 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2025 | ND              | 6.35 | 106        | 6.00          | 3.96 |           |  |
| Total BTEX     | <0.300 | 0.300           | 07/15/2025 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 128    | 16.0            | 07/15/2025 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 07/15/2025 | ND              | 189 | 94.7       | 200           | 0.536 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/15/2025 | ND              | 197 | 98.7       | 200           | 0.948 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/15/2025 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 87.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.1 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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\*=Accredited Analyte

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A handwritten signature in black ink that reads "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

| Company Name: <b>ENSO LUM, LLC</b><br>Project Manager: <b>JEREMY REICH</b><br>Address: <b>601 N MARIENTEAD</b><br>City: <b>MIDLANDS</b> State: <b>TX</b> Zip: <b>79701</b><br>Phone #: <b>432 296 6627</b> Fax #: <b></b><br>Project #: <b>03C1558680</b> Project Owner: <b>XTO</b><br>Project Name: <b>CORRAL CANYON EXPANSION</b><br>Project Location: <b>32.153538, -103.999539</b><br>Sampler Name: <b>21cdeh Azuka</b> |              | <b>BILL TO</b><br>P.O. #: <b></b><br>Company: <b>XTO</b><br>Attn: <b>Dale Woodall</b><br>Address: <b></b><br>City: <b></b><br>State: <b></b> Zip: <b></b><br>Phone #: <b></b><br>Fax #: <b></b>  |          | <b>ANALYSIS REQUEST</b> |              |        |          |          |  |        |      |      |  |  |            |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |  |  |        |  |  |  |  |  |        |  |  |  |  |  |            |  |  |  |  |  |            |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |
|---|--------------|--|----------|-------------------------|--------------|--------|----------|----------|--|--------|------|------|--|--|------------|--|--|--|--|--|------|--|--|--|--|--|-----|--|--|--|--|--|--------|--|--|--|--|--|--------|--|--|--|--|--|------------|--|--|--|--|--|------------|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|--|--|
| FOR LAB USE ONLY<br><br>Lab I.D. <b>hasy182</b><br><br><b>Sample I.D.</b><br><br><b>BHD1 (S)</b><br><br><i>X/FE</i>   |              | <table border="1"> <thead> <tr> <th rowspan="2">(G)RAB OR (C)OMP.</th> <th rowspan="2"># CONTAINERS</th> <th rowspan="2">MATRIX</th> <th rowspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th>SLUDGE</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>WASTEWATER</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>SOIL</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>OIL</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>SLUDGE</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>OTHER:</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>ACID/BASE:</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>ICE / COOL</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>OTHER:</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |          | (G)RAB OR (C)OMP.       | # CONTAINERS | MATRIX | PRESERV. | SAMPLING |  | SLUDGE | DATE | TIME |  |  | WASTEWATER |  |  |  |  |  | SOIL |  |  |  |  |  | OIL |  |  |  |  |  | SLUDGE |  |  |  |  |  | OTHER: |  |  |  |  |  | ACID/BASE: |  |  |  |  |  | ICE / COOL |  |  |  |  |  | OTHER: |  |  |  |  |  |  |  |  |  | <b>BTEX</b><br><b>TPH</b><br><b>CHLORIDE</b><br><br><i>7/14/25</i><br><i>7/14/25</i><br><i>WFE</i> |  |
| (G)RAB OR (C)OMP.   | # CONTAINERS | MATRIX   | PRESERV. |                         |              |        |          | SAMPLING |  |        |      |      |  |  |            |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |  |  |        |  |  |  |  |  |        |  |  |  |  |  |            |  |  |  |  |  |            |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |
|   |              |  |          | SLUDGE                  | DATE         | TIME   |          |          |  |        |      |      |  |  |            |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |  |  |        |  |  |  |  |  |        |  |  |  |  |  |            |  |  |  |  |  |            |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |
|   |              | WASTEWATER   |          |                         |              |        |          |          |  |        |      |      |  |  |            |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |  |  |        |  |  |  |  |  |        |  |  |  |  |  |            |  |  |  |  |  |            |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |
|   |              | SOIL   |          |                         |              |        |          |          |  |        |      |      |  |  |            |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |  |  |        |  |  |  |  |  |        |  |  |  |  |  |            |  |  |  |  |  |            |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |
|   |              | OIL  |          |                         |              |        |          |          |  |        |      |      |  |  |            |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |  |  |        |  |  |  |  |  |        |  |  |  |  |  |            |  |  |  |  |  |            |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |
|   |              | SLUDGE   |          |                         |              |        |          |          |  |        |      |      |  |  |            |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |  |  |        |  |  |  |  |  |        |  |  |  |  |  |            |  |  |  |  |  |            |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |
|   |              | OTHER:   |          |                         |              |        |          |          |  |        |      |      |  |  |            |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |  |  |        |  |  |  |  |  |        |  |  |  |  |  |            |  |  |  |  |  |            |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |
|   |              | ACID/BASE:   |          |                         |              |        |          |          |  |        |      |      |  |  |            |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |  |  |        |  |  |  |  |  |        |  |  |  |  |  |            |  |  |  |  |  |            |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |
|   |              | ICE / COOL   |          |                         |              |        |          |          |  |        |      |      |  |  |            |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |  |  |        |  |  |  |  |  |        |  |  |  |  |  |            |  |  |  |  |  |            |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |
|   |              | OTHER:   |          |                         |              |        |          |          |  |        |      |      |  |  |            |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |  |  |        |  |  |  |  |  |        |  |  |  |  |  |            |  |  |  |  |  |            |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |
|   |              |  |          |                         |              |        |          |          |  |        |      |      |  |  |            |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |  |  |        |  |  |  |  |  |        |  |  |  |  |  |            |  |  |  |  |  |            |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |

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|                              |                        |   |  |
|------------------------------|------------------------|---|--|
| Relinquished By:             | Date: 7/14/25          | Received By: <i>Cardinal</i>  | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add Phone #:   |
| Relinquished By:             | Time: 1037             | Received By:  | All Results are emailed. Please provide Email address:   |
| 7/14/25                      | Date:                  |   |  |
|                              | Time:                  |   |  |
| Delivered By: (Circle One)   | Observed Temp. °C 4.4  | Sample Condition  | Checked By: (Initials) <i>SL</i>   |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C 4.7 | Cool Intact<br><input type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No | Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) Sample, Condition<br>Cool Intact Observed Temp. °C<br><input type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No |
|                              |                        | Thermometer ID #140<br>Correction Factor +0.3°C   | 48 Hrs. Corrected Temp. °C   |

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---

## Appendix E

### Spill Volume Calculation

|  |                                |         |
|--|--------------------------------|---------|
| <b>Location:</b>                         | <b>CORRAL CANYON EXPANSION</b> |         |
| <b>Spill Date:</b>                       | <b>5/7/2025</b>                |         |
| <b>Incident:</b>                         | <b>NAPP2512841799</b>          |         |
| <b>Area 1</b>                            |                                |         |
| Approximate Area =                       | 7000.00                        | sq. ft. |
| Average Saturation (or depth) of spill = | 0.10                           | inches  |
| Average Porosity Factor =                |                                |         |
| <b>VOLUME OF LEAK</b>                    |                                |         |
| Total Crude Oil =                        |                                | bbls    |
| Total Produced Water =                   | 10.38                          | bbls    |
| <b>TOTAL VOLUME OF LEAK</b>              |                                |         |
| Total Crude Oil =                        |                                | bbls    |
| Total Produced Water =                   | 10.38                          | bbls    |
| <b>TOTAL VOLUME RECOVERED</b>            |                                |         |
| Total Crude Oil =                        |                                | bbls    |
| Total Produced Water =                   | 10.00                          | bbls    |

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 460451

**QUESTIONS**

|   |   |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380  |
|   | Action Number:<br>460451                                |
|   | Action Type:<br>[C-141] Initial C-141 (C-141-v-Initial) |

**QUESTIONS**

| Prerequisites     |  |
|-------------------|--|
| Incident ID (n#)  | nAPP2512841799                             |
| Incident Name     | NAPP2512841799 CORRAL CANYON EXPANSION @ 0 |
| Incident Type     | Produced Water Release                     |
| Incident Status   | Initial C-141 Received                     |
| Incident Facility | [fAPP2123048204] Corral Canyon Expansion   |

**Location of Release Source**

*Please answer all the questions in this group.*

|                         |                         |
|-------------------------|-------------------------|
| Site Name               | Corral Canyon Expansion |
| Date Release Discovered | 05/07/2025              |
| 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  | <i>Not answered.</i>  |
| Produced Water Released (bbls) Details   | <i>Cause: Corrosion   Coupling   Produced Water   Released: 10 BBL   Recovered: 10 BBL   Lost: 0 BBL.</i> |
| Is the concentration of chloride in the produced water >10,000 mg/l  | <i>Yes</i>  |
| Condensate Released (bbls) Details   | <i>Not answered.</i>  |
| Natural Gas Vented (Mcf) Details   | <i>Not answered.</i>  |
| Natural Gas Flared (Mcf) Details   | <i>Not answered.</i>  |
| Other Released Details   | <i>Not answered.</i>  |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | <i>Not answered.</i>  |

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Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 460451

**QUESTIONS (continued)**

|   |   |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380  |
|   | Action Number:<br>460451                                |
|   | Action Type:<br>[C-141] Initial C-141 (C-141-v-Initial) |

**QUESTIONS**

| <b>Nature and Volume of Release (continued)</b>   |   |
|---|---|
| Is this a gas only submission (i.e. only significant Mcf values reported)               | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC                  | No  |
| Reasons why this would be considered a submission for a notification of a major release | Unavailable.  |

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

| <b>Initial Response</b>   |               |
|---|---------------|
| <i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i> |               |
| 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: Robert Woodall<br>Title: Environmental Analyst<br>Email: robert.d.woodall@exxonmobil.com<br>Date: 05/09/2025 |
|--|--|

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 460451

**QUESTIONS (continued)**

|   |   |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380  |
|   | Action Number:<br>460451                                |
|   | Action Type:<br>[C-141] Initial C-141 (C-141-v-Initial) |

**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) | <i>Not answered.</i> |
| What method was used to determine the depth to ground water  | <i>Not answered.</i> |
| Did this release impact groundwater or surface water   | <i>Not answered.</i> |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>   |                      |
| A continuously flowing watercourse or any other significant watercourse  | <i>Not answered.</i> |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  | <i>Not answered.</i> |
| An occupied permanent residence, school, hospital, institution, or church  | <i>Not answered.</i> |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes  | <i>Not answered.</i> |
| Any other fresh water well or spring   | <i>Not answered.</i> |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | <i>Not answered.</i> |
| A wetland  | <i>Not answered.</i> |
| A subsurface mine  | <i>Not answered.</i> |
| An (non-karst) unstable area   | <i>Not answered.</i> |
| Categorize the risk of this well / site being in a karst geology   | <i>Not answered.</i> |
| A 100-year floodplain  | <i>Not answered.</i> |
| Did the release impact areas not on an exploration, development, production, or storage site                               | <i>Not answered.</i> |

**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   | <b>No</b> |
| <i>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.</i> |           |

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

CONDITIONS

Action 460451

**CONDITIONS**

|   |   |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380  |
|   | Action Number:<br>460451                                |
|   | Action Type:<br>[C-141] Initial C-141 (C-141-v-Initial) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| nvelez     | None      | 5/9/2025       |

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 522664

**QUESTIONS**

|   |   |
|---|---|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380  |
|   | Action Number:<br><br>522664  |
|   | Action Type:<br><br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

**QUESTIONS**

| Prerequisites     |   |
|-------------------|---|
| Incident ID (n#)  | nAPP2512841799  |
| Incident Name     | NAPP2512841799 CORRAL CANYON EXPANSION @ FAPP2123048204 |
| Incident Type     | Produced Water Release                                  |
| Incident Status   | Deferral Request Received                               |
| Incident Facility | [fAPP2123048204] Corral Canyon Expansion                |

**Location of Release Source**

*Please answer all the questions in this group.*

|                         |                         |
|-------------------------|-------------------------|
| Site Name               | CORRAL CANYON EXPANSION |
| Date Release Discovered | 05/07/2025              |
| 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  | <i>Not answered.</i>  |
| Produced Water Released (bbls) Details   | <i>Cause: Corrosion   Coupling   Produced Water   Released: 10 BBL   Recovered: 10 BBL   Lost: 0 BBL.</i> |
| Is the concentration of chloride in the produced water >10,000 mg/l  | <i>Yes</i>  |
| Condensate Released (bbls) Details   | <i>Not answered.</i>  |
| Natural Gas Vented (Mcf) Details   | <i>Not answered.</i>  |
| Natural Gas Flared (Mcf) Details   | <i>Not answered.</i>  |
| Other Released Details   | <i>Not answered.</i>  |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | <i>Not answered.</i>  |

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QUESTIONS, Page 2

Action 522664

**QUESTIONS (continued)**

|   |   |
|---|---|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380  |
|   | Action Number:<br><br>522664  |
|   | Action Type:<br><br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

**QUESTIONS**

| <b>Nature and Volume of Release (continued)</b>   |   |
|---|---|
| Is this a gas only submission (i.e. only significant Mcf values reported)               | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC                  | No  |
| Reasons why this would be considered a submission for a notification of a major release | <i>Unavailable.</i>   |

*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.*

| <b>Initial Response</b>   |                      |
|---|----------------------|
| <i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i> |                      |
| 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  | <i>Not answered.</i> |

*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: Robert Woodall<br>Title: Environmental Analyst<br>Email: robert.d.woodall@exxonmobil.com<br>Date: 11/03/2025 |
|--|--|

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QUESTIONS, Page 3

Action 522664

**QUESTIONS (continued)**

|   |   |
|---|---|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380  |
|   | Action Number:<br><br>522664  |
|   | Action Type:<br><br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

**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 51 and 75 (ft.)        |
| What method was used to determine the depth to ground water  | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water   | No                             |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>   |                                |
| A continuously flowing watercourse or any other significant watercourse  | Between 1000 (ft.) and ½ (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  | Between ½ and 1 (mi.)          |
| An occupied permanent residence, school, hospital, institution, or church  | Between 1 and 5 (mi.)          |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes  | Between 1 and 5 (mi.)          |
| Any other fresh water well or spring   | Between 1 and 5 (mi.)          |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Greater than 5 (mi.)           |
| A wetland  | Between 1000 (ft.) and ½ (mi.) |
| A subsurface mine  | Greater than 5 (mi.)           |
| An (non-karst) unstable area   | Between ½ and 1 (mi.)          |
| Categorize the risk of this well / site being in a karst geology   | Medium                         |
| A 100-year floodplain  | Between 1000 (ft.) and ½ (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site                               | No                             |

**Remediation Plan**

*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|  |     |
|--|-----|
| Requesting a remediation plan approval with this submission  | Yes |
| <i>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.</i> |     |

|  |     |
|--|-----|
| 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)         | 2350 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 0    |
| GRO+DRO (EPA SW-846 Method 8015M)           | 0    |
| BTEX (EPA SW-846 Method 8021B or 8260B)     | 0    |
| Benzene (EPA SW-846 Method 8021B or 8260B)  | 0    |

*Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.*

|   |            |
|---|------------|
| On what estimated date will the remediation commence                        | 06/04/2025 |
| On what date will (or did) the final sampling or liner inspection occur     | 06/04/2025 |
| On what date will (or was) the remediation complete(d)                      | 07/18/2025 |
| What is the estimated surface area (in square feet) that will be reclaimed  | 9100       |
| What is the estimated volume (in cubic yards) that will be reclaimed        | 675        |
| What is the estimated surface area (in square feet) that will be remediated | 9100       |
| What is the estimated volume (in cubic yards) that will be remediated       | 0          |

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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QUESTIONS, Page 4

Action 522664

**QUESTIONS (continued)**

|   |   |
|---|---|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380  |
|   | Action Number:<br>522664  |
|   | Action Type:<br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

**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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.) | No  |
| (Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)         | Not answered.   |
| (In Situ) Soil Vapor Extraction   | Not answered.   |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)     | Not answered.   |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)                    | Not answered.   |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)              | Not answered.   |
| Ground Water Abatement pursuant to 19.15.30 NMAC                                      | Not answered.   |
| OTHER (Non-listed remedial process)   | Yes   |
| Other Non-listed Remedial Process. Please specify                                     | A 48-hour advanced notice to conduct a liner inspection was submitted to the NMOCD on May 28, 2025. A liner integrity inspection was conducted by Ensolum personnel on June 4, 2025. Liner inspection results indicated that a small tear was identified on the liner floor. Delineation soil sampling activities were warranted at the Site. |

*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: Robert Woodall<br>Title: Environmental Analyst<br>Email: robert.d.woodall@exxonmobil.com<br>Date: 11/03/2025 |
|--|--|

*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, Page 5

Action 522664

**QUESTIONS (continued)**

|   |   |
|---|---|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380  |
|   | Action Number:<br><br>522664  |
|   | Action Type:<br><br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

**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   | Yes  |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes  |
| Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction | Yes  |
| Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction                            | Lined containment contains surface piping and storage tanks. |
| What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted                                     | 9100   |
| What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted   | 675  |

*Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.*

|  |  |
|--|--|
| Enter the facility ID (f#) on which this deferral should be granted                            | fAPP2123048204 Corral Canyon Expansion |
| Enter the well API (30-) on which this deferral should be granted                              | Not answered.                          |
| Contamination does not cause an imminent risk to human health, the environment, or groundwater | True                                   |

*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: Robert Woodall<br>Title: Environmental Analyst<br>Email: robert.d.woodall@exxonmobil.com<br>Date: 11/03/2025 |
|--|--|

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**Santa Fe, NM 87505**

QUESTIONS, Page 6

Action 522664

**QUESTIONS (continued)**

|   |   |
|---|---|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380  |
|   | Action Number:<br><br>522664  |
|   | Action Type:<br><br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

**QUESTIONS**

| <b>Sampling Event Information</b>   |                   |
|---|-------------------|
| Last sampling notification (C-141N) recorded  | <b>496003</b>     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | <b>08/19/2025</b> |
| What was the (estimated) number of samples that were to be gathered                             | <b>2</b>          |
| What was the sampling surface area in square feet   | <b>50</b>         |

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

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CONDITIONS

Action 522664

**CONDITIONS**

|   |   |
|---|---|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380  |
|   | Action Number:<br><br>522664  |
|   | Action Type:<br><br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

**CONDITIONS**

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| nvelez     | Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place. | 12/31/2025     |