



July 3, 2025

New Mexico Oil Conservation Division

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

**Re: Closure Request
Brushy Draw 30-31 Fed Battery
Incident Number nAPP2510144544
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document site assessment, excavation, and soil sampling activities at Brushy Draw 30-31 Fed Battery (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remedial activities that have occurred and requesting no further remediation for Incident Number nAPP2510144544.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 31, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.091609°, -103.918154°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On April 10, 2025, corrosion on a water line resulted in the release of approximately 46 barrels (bbls) of produced water into a lined containment and onto pad surface. A vacuum truck was dispatched and approximately 45 bbls of fluids were recovered. XTO submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on April 11, 2025. The release was assigned Incident Number nAPP2510144544.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. On February 4, 2020, the New Mexico Office of State Engineer (OSE) permitted soil boring (C-4394) was advanced to a depth of 110 feet bgs via sonic drilling method. The borehole was located approximately 1.46 miles north of the Site. A field geologist logged and described soils continuously. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that

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groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. The well log and records are provided in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 1,062 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by potentially unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

Based on the proximity of the nearest depth to groundwater data, 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

SITE ASSESSMENT AND LINER INSPECTION ACTIVITIES

On April 10, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. After a review of the C-141 and release photographs it was confirmed the release occurred partially within a lined containment. The lined containment was cleaned of all debris, power washed, and an advance notice of the liner inspection was submitted on April 16, 2025. On April 21, 2025, the lined containment was inspected by Ensolum personnel and was determined to be operating as designed. Upon inspection, no rips, tears, holes, or damage were observed and the liner was determined to be sufficient. Photographic documentation of the inspection is included in Appendix B.

DELINEATION SOIL SAMPLING ACTIVITIES

Between April 21 and April 30, 2025, Ensolum personnel were at the Site to conduct delineation activities. Delineation soil samples SS01 through SS09, with the exception of SS05 which was inadvertently missed in the nomenclature, were collected from a depth of 0.5 feet bgs within and around the release extent. Delineation boreholes SS01 through SS03 were advanced via hand auger and heavy equipment to terminal depths ranging from 1-foot to 2 feet bgs within the release extent to assess the vertical extent of the release. Soil samples from the delineation boreholes were field screened at depths ranging from 0.5 feet to 2 feet bgs for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation borehole locations were mapped utilizing a handheld GPS system and are depicted on Figure 2.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States

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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 indicated TPH and/or chloride concentrations exceeded Closure Criteria at depths of 0.5 feet. Laboratory analytical results for terminal soil samples in all boreholes were in compliance with the Closure Criteria, successfully defining the vertical extent of the release. Analytical results for delineation soil samples SS04 and SS06 through SS09 indicated that all COC concentrations were compliant with the Closure Criteria successfully defining the lateral extent of the release. Based on the presence of TPH and/or chloride impacted soil, excavation activities were warranted.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between May 6 and May 30, 2025, Ensolum personnel were at the Site to oversee excavation activities and conduct confirmation soil sampling. Impacted soil was excavated from the release area as indicated by delineation soil sample laboratory analytical results. Excavation activities were performed using heavy equipment and hand shovels. To direct excavation activities, Ensolum personnel screened soil for VOCs and chloride as described above. Following the removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS12 were collected from the floor of the excavation at depths ranging from 1-foot to 2 feet bgs. Confirmation sidewall soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from ground surface to 2 feet bgs. The excavation extent and confirmation soil sample locations are presented on Figure 3. The confirmation soil samples were collected, transported, and analyzed for the same COCs as described above and submitted to Cardinal.

The final excavation extent measured approximately 2,220 square feet. A total of approximately 120 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Halfway Disposal in Hobbs, New Mexico. The final excavation extent is in the process of being backfilled with material purchased locally and recontoured to match pre-existing Site conditions.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final confirmation soil samples collected indicated that all COC concentrations were compliant with the Closure Criteria. All material represented by delineation soil samples with analytical results exceeding Closure Criteria was removed. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment, delineation and excavation activities were conducted at the Site to address the April 10, 2025, produced water release. Laboratory analytical results for all confirmation soil samples collected from the final excavation extent indicated that all COC concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required. The excavation will be backfilled with material purchased locally and the Site recontoured to match pre-existing Site conditions.

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Excavation of soil has mitigated impacts at this Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further remediation for Incident Number nAPP2510144544.

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

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "Tracy Hillard".

Tracy Hillard
Project Engineer

A handwritten signature in black ink, appearing to read "Morrissey".

Tacoma Morrissey
Associate Principal

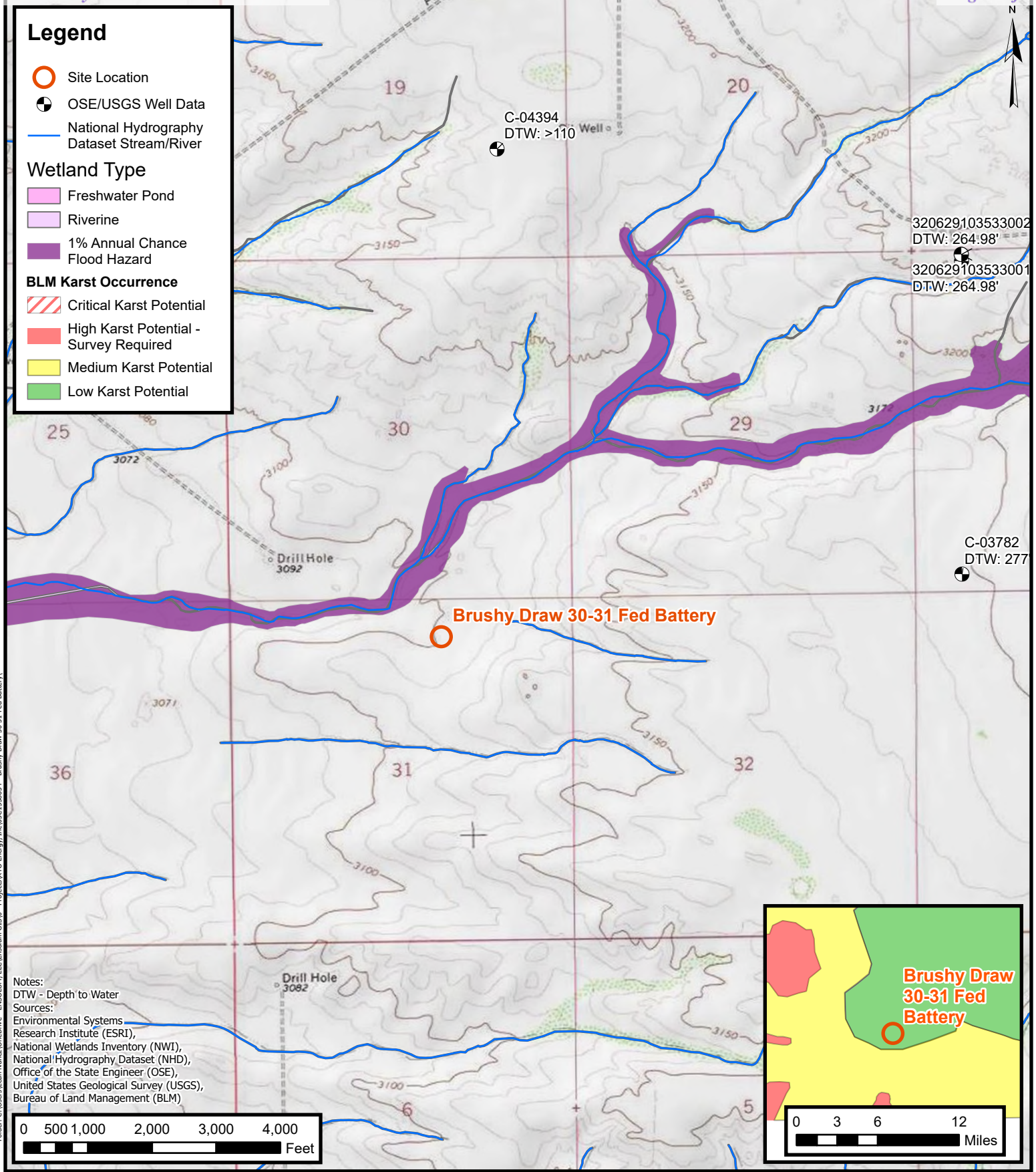
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES





ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Site Receptor Map

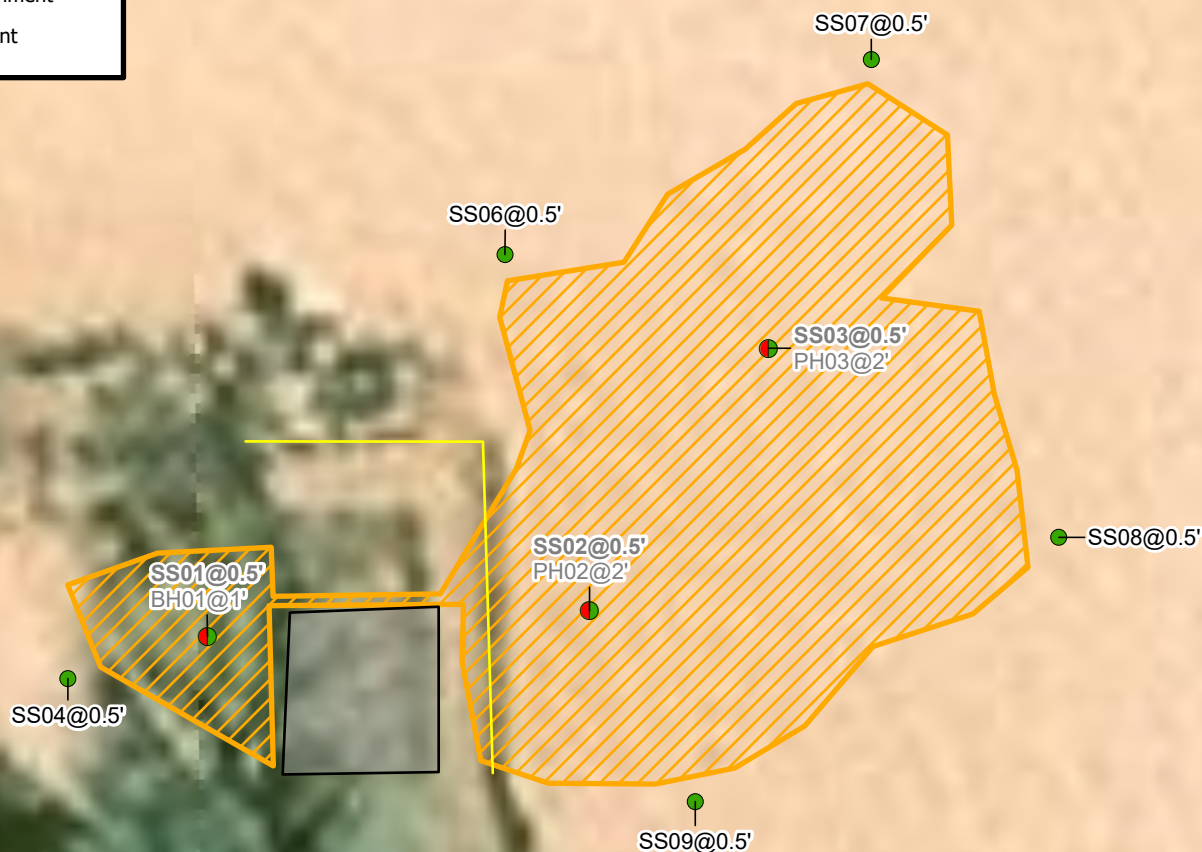
XTO Energy, Inc
Brushy Draw 30-31 Fed Battery
Incident Number: nAPP2510144544
Unit B, Section 31, T 25S, R 30E
Eddy County, New Mexico

FIGURE

1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Oil and Gas Utility Line
- Lined Containment
- Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable Closure Criteria.
 Grey text indicate soil sample was removed during excavation activities.

0 16 32
 Feet

Sources: Environmental Systems Research Institute (ESRI)



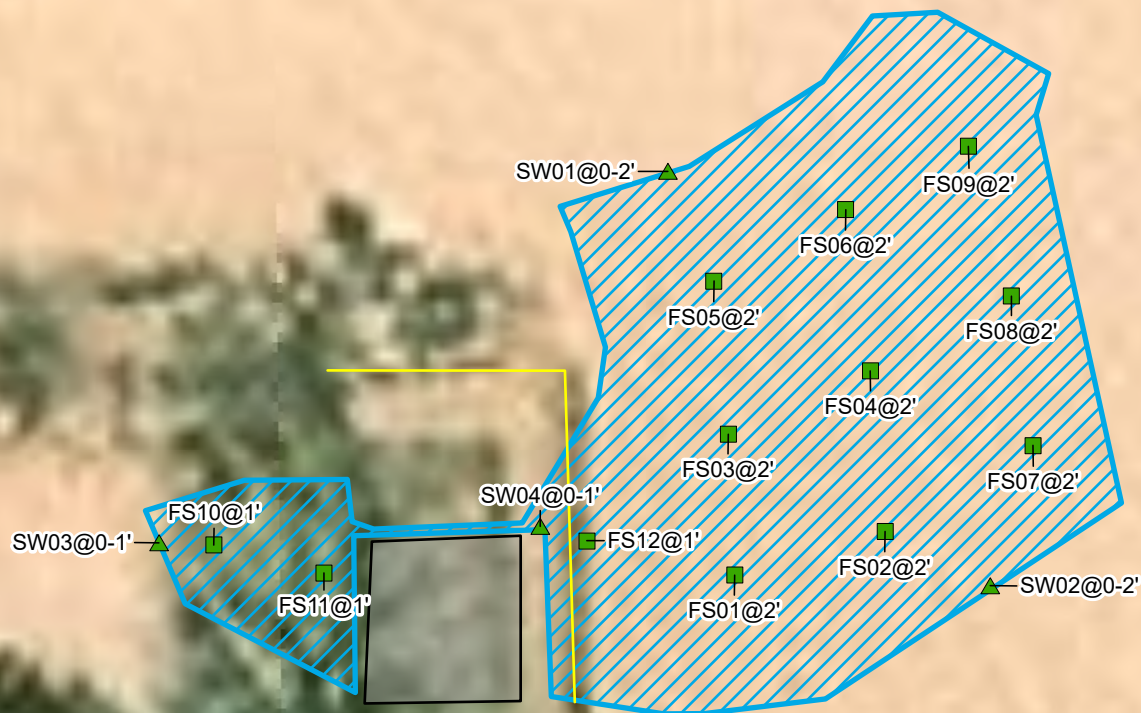
Delineation Soil Sample Locations

XTO Energy, Inc
 Brushy Draw 30-31 Fed Battery
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 Unit B, Section 31, T 25S, R 30E
 Eddy County, New Mexico

FIGURE
2

Legend

- Excavation Floor
Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall
Sample in Compliance with Closure Criteria
- Oil and Gas Utility Line
- ▨ Excavation Extent
- Lined Containment



Notes:
Sample ID @ Depth Below Ground Surface.

0 16 32
Feet

Sources: Environmental Systems Research Institute (ESRI)



Confirmation Soil Sample Locations

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Incident Number: nAPP2510144544
Unit B, Section 31, T 25S, R 30E
Eddy County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Brushy Draw 30-31 Fed Battery
 XTO Energy, Inc
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	04/24/2025	0.5	<0.050	<0.300	68.5	2,540	302	2,579	2,884	2,240
BH01	04/30/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	04/24/2025	0.5	<0.050	<0.300	<10.0	14.8	<10.0	14.8	14.8	9,730
PH02	04/30/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS03	04/24/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,080
PH03	04/30/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS04	04/30/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS06	04/30/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS07	04/30/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SS08	04/30/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
SS09	04/30/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Confirmation Soil Samples										
FS01	05/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS02	05/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS03	05/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS04	05/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS05	05/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS06	05/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS07	05/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS08	05/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS09	05/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS10	05/07/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS11	05/07/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS12	05/30/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Brushy Draw 30-31 Fed Battery
 XTO Energy, Inc
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW01	05/06/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW02	05/06/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW03	05/07/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW04	05/30/2025	0-1	<0.050	<0.300	<10.0	14.5	<10.0	14.5	14.5	48.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4394 POD 1 MW-01		WELL TAG ID NO.		OSE FILE NO(S). C-4394		
	WELL OWNER NAME(S) Kyle Littrell XTO Energy, Inc.				PHONE (OPTIONAL) 432-682-8873		
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Road				CITY Midland	STATE TX	
					ZIP 79707		
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 06	SECONDS 46.42	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE -103	54	55.92	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit 1 Section19, Township 25S, Range 30E							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 2/4/20	DRILLING ENDED 2/5/20	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT)	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT)	DATE STATIC MEASURED	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY: None						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER – SPECIFY: Sonic				CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	0 110		6				
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	110 0		6	Bentonite Chips	23.5	Pour	


FOR OSE INTERNAL USE

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

FILE NO. C-4394	POD NO. 1	TRN NO. 666404
LOCATION 25S. 30E. 19 3 2 4	WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)		ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO					
				See attached log	Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):		
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:							

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Dry Hole, backfilled with bentonite chips. <div style="text-align: right; color: blue;"> OSE DII ROSWELL NM 13 JAN '25 AM 11:12 </div>	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Brett Gresham	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Shawn Cain DATE

FOR OSE INTERNAL USE

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

FILE NO. C-4394	POD NO. 1	TRN NO. 0666404
LOCATION 25S. 30E. 19 324	WELL TAG ID NO. NA	PAGE 2 OF 2

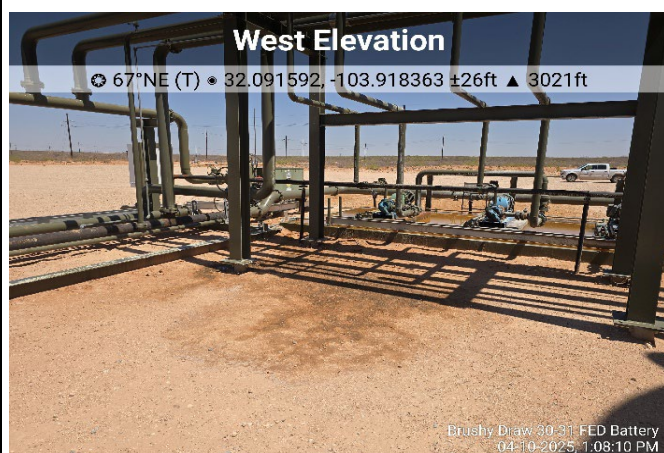


APPENDIX B

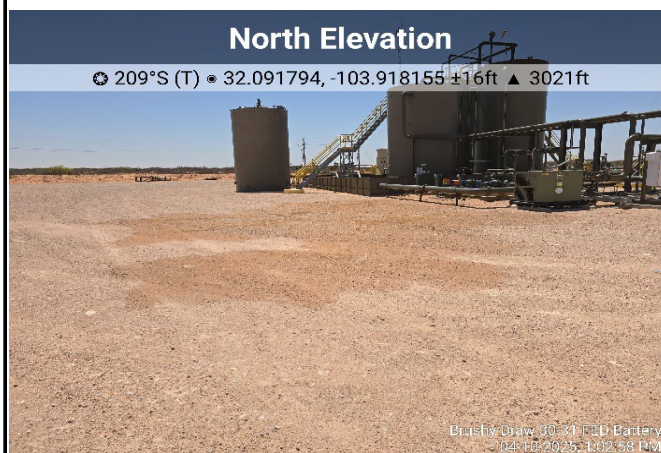
Photographic Log

**Photographic Log**

XTO Energy, Inc
Brushy Draw 30-31 Fed Battery
nAPP2510144544



Photograph: 1 Date: 4/10/2025
Description: Site assessment activities
View: Northeast



Photograph: 2 Date: 4/10/2025
Description: Site assessment activities
View: South



Photograph: 3 Date: 4/10/2025
Description: Liner before cleaning
View: South



Photograph: 4 Date: 4/21/2025
Description: Liner inspection activities; well sign
View: Southwest



Photographic Log

XTO Energy, Inc

Brushy Draw 30-31 Fed Battery

nAPP2510144544



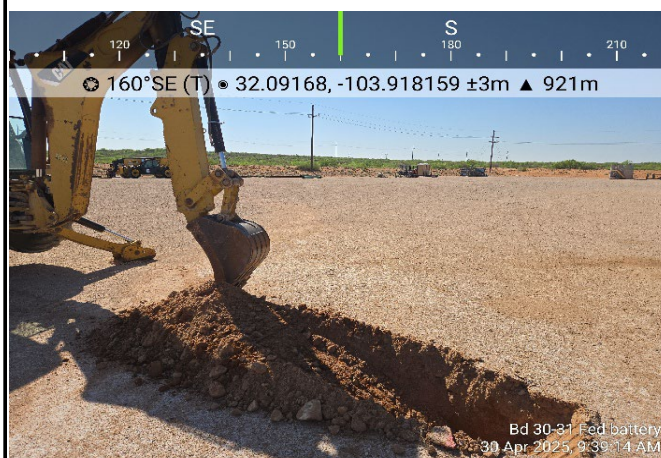
Photograph: 5 Date: 4/21/2025
Description: Liner inspection activities
View: Southeast



Photograph: 6 Date: 4/21/2025
Description: Liner inspection activities
View: West



Photograph: 7 Date: 4/21/2025
Description: Liner inspection activities
View: Southeast



Photograph: 8 Date: 4/30/2025
Description: Delineation activities; near PH03
View: South



Photographic Log

XTO Energy, Inc

Brushy Draw 30-31 Fed Battery

nAPP2510144544

317°NW (T) • 32.091373, -103.917698 ±3m ▲ 924m



Excavation berm

Brushy Draw 30-31 Federal Battery
05 May 2025, 3:08:35 PM

Photograph: 9

Date: 5/5/2025

Description: Excavation activities; near FS07

View: Northwest

179°S (T) • 32.091645, -103.918355 ±3m ▲ 921m



Excavation area

Brushy Draw 30-31 Federal Battery
06 May 2025, 1:47:43 PM

Photograph: 10

Date: 5/6/2025

Description: Excavation activities; near FS10

View: South

11°N (T) • 32.091598, -103.918347 ±3m ▲ 921m



Excavation area

Brushy Draw 30-31 Federal Battery
07 May 2025, 1:42:03 PM

Photograph: 11

Date: 5/7/2025

Description: Excavation activities; near FS11

View: North

Date & Time: Sat, May 06, 2025 1:47:43 PM
Position: 32.091645, -103.918355
Altitude: 3113ft
Datum: WGS-84
Azimuth/Bearing: 179° S (T)
Elevation Angle: 17.4°
Horizon Angle: 11.2°
Zoom: 1.0X
Brushy Draw 30-31



Photograph: 12

Date: 5/30/2025


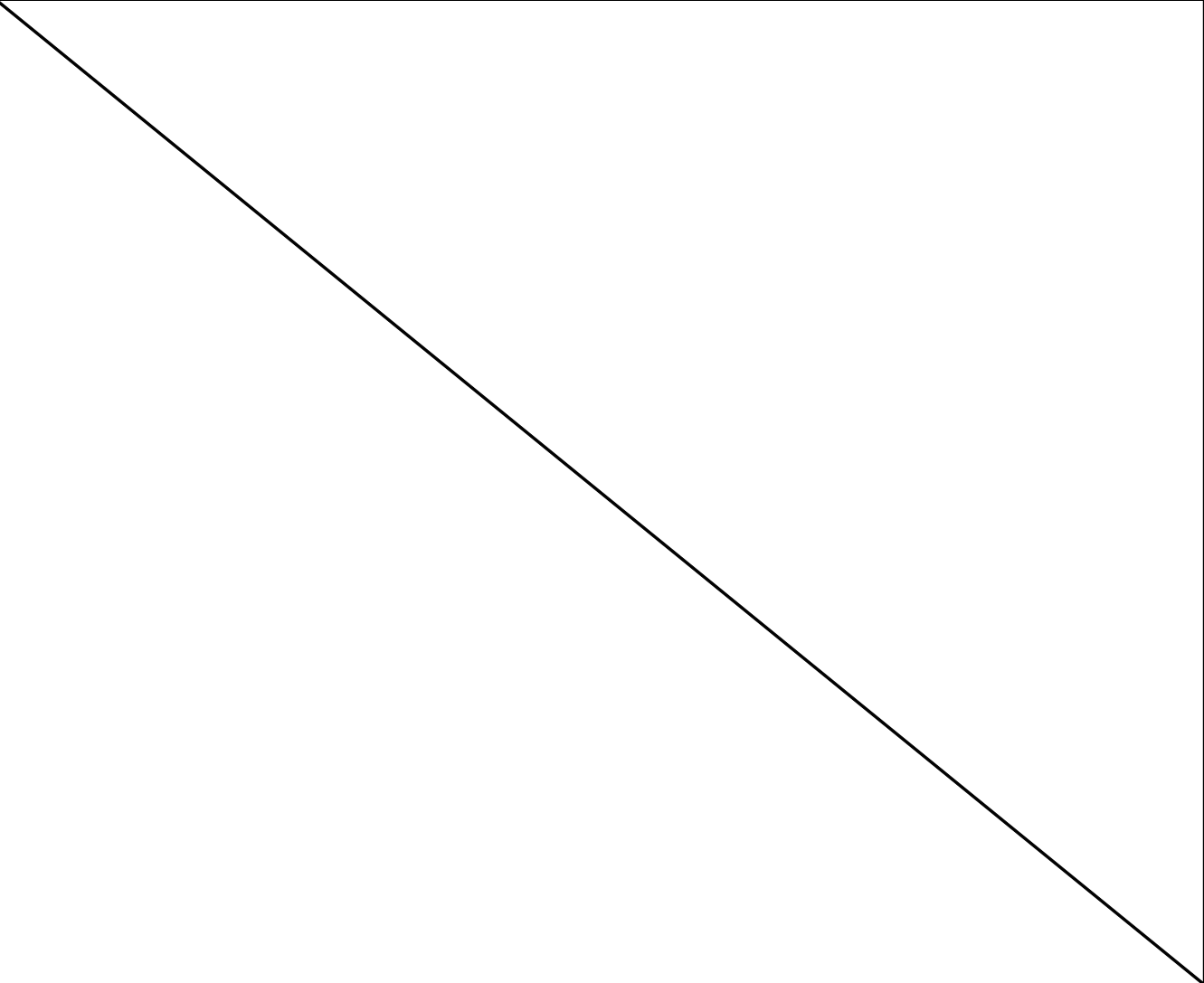
Description: Excavation activities; near FS02


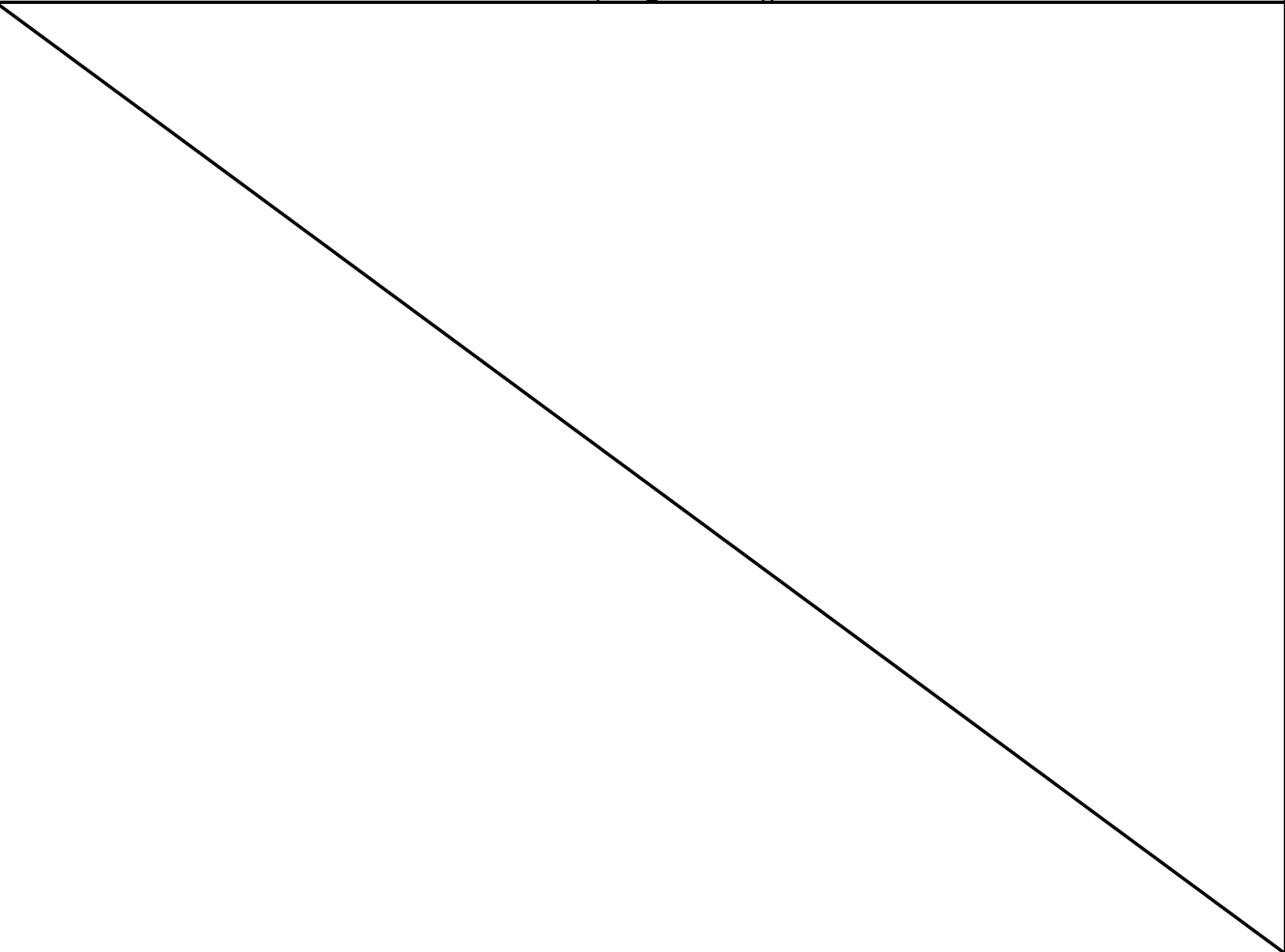
View: Northwest


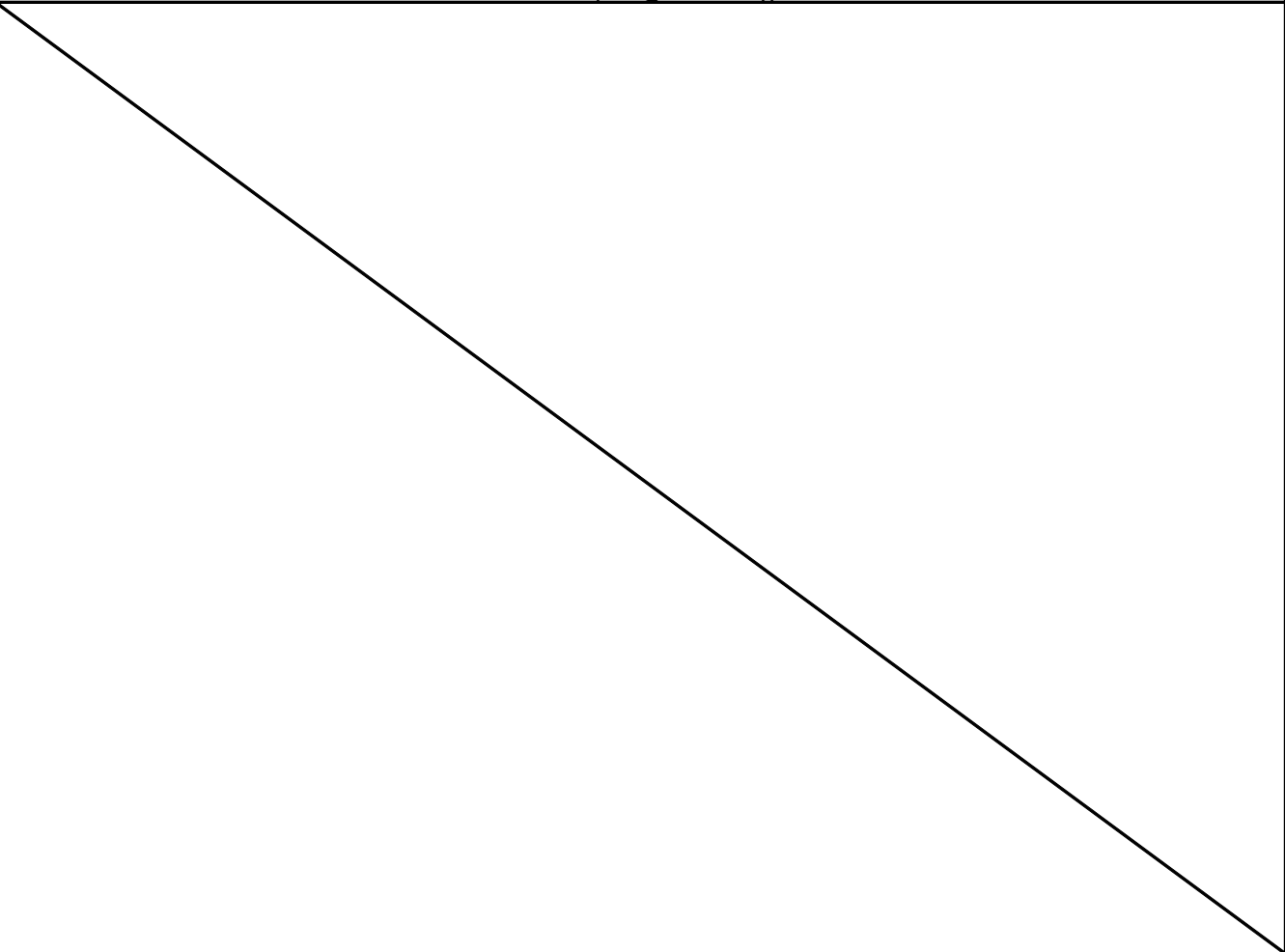


APPENDIX C

Lithologic Soil Sampling Logs

 ENSOLUM		Sample Name: SS01/BH01		Date: 4/21/2025				
		Site Name: Brushy Draw 30-31 Fed Battery						
		Incident Number: nAPP2510144544						
		Job Number: 03C1558654						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.091571, -103.918301			Logged By: JD		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% chloride correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	2,632	172	Y	SS01	0.5	0	CCHE	(0-1') CALICHE, tan, poorly graded
Drv	<162	0.0	N	BH01	1	1	SP	(@1') SAND, reddish brown, fine grained
Total Depth @ 1-foot bgs								
								

 ENSOLUM		Sample Name: SS02/PH02		Date: 4/21/2025				
		Site Name: Brushy Draw 30-31 Fed Battery						
		Incident Number: nAPP2510144544						
		Job Number: 03C1558654						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.091575, -103.918199			Logged By: JD		Method: Backhoe			
			Hole Diameter: 24"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% chloride correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	10,724	3.8	N	SS02	0.5	0	CCHE	(0-1') CALICHE, tan, poorly graded
Drv	3,052	0.0	N		1	1	SP	(1-2') SAND, reddish brown, fine grained
Drv	<162	0.0	N	PH02	2	2		
Total Depth @ 2 feet bgs								
								

 ENSOLUM		Sample Name: SS03/PH03		Date: 4/21/2025				
		Site Name: Brushy Draw 30-31 Fed Battery						
		Incident Number: nAPP2510144544						
		Job Number: 03C1558654						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.091635, -103.918149			Logged By: JD		Method: Backhoe			
			Hole Diameter: 24"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% chloride correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	9,878	4.2	N	SS03	0.5	0	CCHE	(0-1') CALICHE, tan, poorly graded
Drv	2,296	0.0	N		1	1	SP	(1-2') SAND, reddish brown, fine grained
Drv	<162	0.0	N	PH03	2	2		
Total Depth @ 2 feet bgs								
								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

April 28, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 04/22/25 13:53.

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

Cardinal Laboratories is 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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/22/2025	Sampling Date:	04/21/2025
Reported:	04/28/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Tamara Oldaker
Project Location:	32.091590, -103.918282		

Sample ID: SS 01 0.5' (H252399-01)

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	04/25/2025	ND	2.16	108	2.00	3.19	
Toluene*	<0.050	0.050	04/25/2025	ND	2.27	114	2.00	3.15	
Ethylbenzene*	<0.050	0.050	04/25/2025	ND	2.13	107	2.00	2.71	
Total Xylenes*	0.227	0.150	04/25/2025	ND	6.35	106	6.00	1.90	
Total BTEX	<0.300	0.300	04/25/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	04/24/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	68.5	10.0	04/24/2025	ND	203	102	200	0.571	
DRO >C10-C28*	2510	10.0	04/24/2025	ND	199	99.4	200	2.25	
EXT DRO >C28-C36	302	10.0	04/24/2025	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 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
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/22/2025	Sampling Date:	04/21/2025
Reported:	04/28/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Tamara Oldaker
Project Location:	32.091590, -103.918282		

Sample ID: SS 02 0.5' (H252399-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2025	ND	2.16	108	2.00	3.19		
Toluene*	<0.050	0.050	04/25/2025	ND	2.27	114	2.00	3.15		
Ethylbenzene*	<0.050	0.050	04/25/2025	ND	2.13	107	2.00	2.71		
Total Xylenes*	<0.150	0.150	04/25/2025	ND	6.35	106	6.00	1.90		
Total BTEX	<0.300	0.300	04/25/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9730	16.0	04/24/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2025	ND	203	102	200	0.571	
DRO >C10-C28*	14.8	10.0	04/24/2025	ND	199	99.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/24/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.5 % 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
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/22/2025	Sampling Date:	04/21/2025
Reported:	04/28/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Tamara Oldaker
Project Location:	32.091590, -103.918282		

Sample ID: SS 03 0.5' (H252399-03)

BTX 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	04/25/2025	ND	2.16	108	2.00	3.19		
Toluene*	<0.050	0.050	04/25/2025	ND	2.27	114	2.00	3.15		
Ethylbenzene*	<0.050	0.050	04/25/2025	ND	2.13	107	2.00	2.71		
Total Xylenes*	<0.150	0.150	04/25/2025	ND	6.35	106	6.00	1.90		
Total BTX	<0.300	0.300	04/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	04/24/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2025	ND	187	93.4	200	0.266	
DRO >C10-C28*	<10.0	10.0	04/24/2025	ND	195	97.4	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/24/2025	ND					

Surrogate: 1-Chlorooctane 74.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.1 % 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

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

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "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: Ensolum, LLC				BILL TO				ANALYSIS REQUEST													
Project Manager: Tracy Hillard				P.O. #:																	
Address: 601 N Marienfeld Street, Suite 400				Company: XTO Energy, Inc																	
City: Midland		State: TX		Zip: 79701		Attn: Colton Brown															
Phone #: 575-937-3906		Fax #:		Address: 3104 E Greene St		City: Carlsbad															
Project #: 03C15586654		Project Owner: XTO Energy		State: NM		Zip: 88220															
Project Name: Brushy Draw 30-31 Federal Battery		- SPILLS		Phone #:		Fax #:															
Project Location: 32.091590, -103.918282																					
Sampler Name: Uriel Santillana																					
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	TPH 8015	BTEX 8021	Chloride 4500											
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME								
H252399	SS01	0.5'	G	1	X				X			4/21/25	1110	X	X	X					
3	SS02	↓	↓	↓					↓			↓	1103	↓	↓	↓					
3	SS03											1107									
US																					

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, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 4-22-25	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: 1:353		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	BBelill@ensolum.com, TMorrissey@ensolum.com,
	Time:		THillard@ensolum.com, KThomason@ensolum.com
Delivered By: (Circle One)	Observed Temp. °C 2.1	Sample Condition	REMARKS: Incident Number: nAPP2510144544
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.4	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cost Center: 2027691371
		Checked By: (Initials)	GFCM: 48605000
		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition
		Thermometer ID #113 #140	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
		Correction Factor -0.5°C	Observed Temp. °C
			Corrected Temp. °C

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



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

May 05, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 05/01/25 13:00.

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

Cardinal Laboratories is 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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/01/2025	Sampling Date:	04/30/2025
Reported:	05/05/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.091590, -103.918282		

Sample ID: PH 03 2' (H252609-01)

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	05/01/2025	ND	1.83	91.7	2.00	1.13	
Toluene*	<0.050	0.050	05/01/2025	ND	1.96	98.2	2.00	0.00372	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	1.99	99.4	2.00	0.603	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.29	105	6.00	0.751	
Total BTEX	<0.300	0.300	05/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/02/2025	ND	448	112	400	3.64	

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	05/01/2025	ND	211	105	200	1.95	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	203	102	200	0.488	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.1 % 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
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/01/2025	Sampling Date:	04/30/2025
Reported:	05/05/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.091590, -103.918282		

Sample ID: PH 02 2' (H252609-02)

BTX 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	05/01/2025	ND	1.83	91.7	2.00	1.13		
Toluene*	<0.050	0.050	05/01/2025	ND	1.96	98.2	2.00	0.00372		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	1.99	99.4	2.00	0.603		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.29	105	6.00	0.751		
Total BTX	<0.300	0.300	05/01/2025	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	160	16.0	05/02/2025	ND	448	112	400	3.64		

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	05/01/2025	ND	211	105	200	1.95	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	203	102	200	0.488	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.3 % 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

Analytical Results For:

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

Received:	05/01/2025	Sampling Date:	04/30/2025
Reported:	05/05/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.091590, -103.918282		

Sample ID: SS 04 0.5' (H252609-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2025	ND	1.83	91.7	2.00	1.13	
Toluene*	<0.050	0.050	05/01/2025	ND	1.96	98.2	2.00	0.00372	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	1.99	99.4	2.00	0.603	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.29	105	6.00	0.751	
Total BTEX	<0.300	0.300	05/01/2025	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	80.0	16.0	05/02/2025	ND	448	112	400	3.64		

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	05/01/2025	ND	211	105	200	1.95	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	203	102	200	0.488	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.0 % 40.6-153

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

Received:	05/01/2025	Sampling Date:	04/30/2025
Reported:	05/05/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.091590, -103.918282		

Sample ID: SS 06 0.5' (H252609-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2025	ND	1.83	91.7	2.00	1.13		
Toluene*	<0.050	0.050	05/01/2025	ND	1.96	98.2	2.00	0.00372		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	1.99	99.4	2.00	0.603		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.29	105	6.00	0.751		
Total BTEX	<0.300	0.300	05/01/2025	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	192	16.0	05/02/2025	ND	448	112	400	3.64		

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	05/01/2025	ND	211	105	200	1.95	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	203	102	200	0.488	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.6 % 40.6-153

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

Received:	05/01/2025	Sampling Date:	04/30/2025
Reported:	05/05/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.091590, -103.918282		

Sample ID: SS 07 0.5' (H252609-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2025	ND	1.83	91.7	2.00	1.13		
Toluene*	<0.050	0.050	05/01/2025	ND	1.96	98.2	2.00	0.00372		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	1.99	99.4	2.00	0.603		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.29	105	6.00	0.751		
Total BTEX	<0.300	0.300	05/01/2025	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	176	16.0	05/02/2025	ND	448	112	400	3.64		

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	05/01/2025	ND	211	105	200	1.95	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	203	102	200	0.488	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.7 % 40.6-153

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

Received:	05/01/2025	Sampling Date:	04/30/2025
Reported:	05/05/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.091590, -103.918282		

Sample ID: SS 08 0.5' (H252609-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2025	ND	1.83	91.7	2.00	1.13		
Toluene*	<0.050	0.050	05/01/2025	ND	1.96	98.2	2.00	0.00372		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	1.99	99.4	2.00	0.603		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.29	105	6.00	0.751		
Total BTEX	<0.300	0.300	05/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	432	16.0	05/02/2025	ND	448	112	400	3.64		

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	05/01/2025	ND	211	105	200	1.95	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	203	102	200	0.488	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.8 % 40.6-153

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

Received:	05/01/2025	Sampling Date:	04/30/2025
Reported:	05/05/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.091590, -103.918282		

Sample ID: SS 09 0.5' (H252609-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2025	ND	1.83	91.7	2.00	1.13		
Toluene*	<0.050	0.050	05/01/2025	ND	1.96	98.2	2.00	0.00372		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	1.99	99.4	2.00	0.603		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.29	105	6.00	0.751		
Total BTEX	<0.300	0.300	05/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	64.0	16.0	05/02/2025	ND	448	112	400	3.64		

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	05/01/2025	ND	211	105	200	1.95	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	203	102	200	0.488	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.0 % 40.6-153

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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, appearing to read "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

(575) 393-2326 FAX (575) 393-2476																	
Company Name: Ensolum, LLC			BILL TO				ANALYSIS REQUEST										
Project Manager: Tracy Hillard			P.O. #:														
Address: 601 N Marienfeld Street, Suite 400			Company: XTO Energy, Inc														
City: Midland State: TX Zip: 79701			Attn: Colton Brown														
Phone #: 575-937-3906 Fax #:			Address: 3104 E Greene St														
Project #: 03C15586654 Project Owner: XTO Energy			City: Carlsbad														
Project Name: Brushy Draw 30-31 Federal Battery - Spill			State: NM Zip: 88220														
Project Location: 32.091590, -103.918282			Phone #:														
Sampler Name: Jesse Dorman			Fax #:														
FOR LAB USE ONLY			MATRIX		PRESERV.	SAMPLING											
Lab I.D.	Sample I.D.	Depth (feet)	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500						
H253609	Phos	2	G	L			4/30/06	9:23									
1	Pho2	2						9:28									
2	SS04	5'						1035									
3	SS06							1043									
4	SS07							1135									
5	SS08							1230									
6	SS09							1145									
7																	
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Relinquished By:			Date: 5-1-25	Received By: [Signature]			Verbal Result: Yes No		Add'l Phone #:								
[Signature]			Time: 1:300	[Signature]			All Results are emailed. Please provide Email address:		JReich@ensolum.com								
							BBellil@ensolum.com, TMorrissey@ensolum.com,		Jdorman@ensolum.com								
							THillard@ensolum.com, KThomason@ensolum.com										
Relinquished By:			Date:	Received By:			REMARKS:		Incident Number: nAPP2510144544								
			Time:						Cost Center: 2027691371								
									GFCM: 48605000								
Delivered By: (Circle One)			Observed Temp. °C	Sample Condition Cool Intact			CHECKED BY:	Turnaround Time: Standard Rush		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C							
Sampler - UPS - Bus - Other:			Corrected Temp. °C	Cool Intact Yes No			(Initials)	#140		Yes No Corrected Temp. °C							
			0.5	No No			yo	Thermometer ID #113		No							
			0.8					Correction Factor -0.3°C									



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

May 05, 2025

TRACY HILLARD
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 05/01/25 13:00.

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

Cardinal Laboratories is 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". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/01/2025	Sampling Date:	04/30/2025
Reported:	05/05/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.091590, -103.918282		

Sample ID: BH 01 1' (H252610-01)

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	05/01/2025	ND	1.83	91.7	2.00	1.13	
Toluene*	<0.050	0.050	05/01/2025	ND	1.96	98.2	2.00	0.00372	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	1.99	99.4	2.00	0.603	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.29	105	6.00	0.751	
Total BTEX	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/02/2025	ND	448	112	400	3.64		

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	05/01/2025	ND	211	105	200	1.95	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	203	102	200	0.488	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 80.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.0 % 40.6-153

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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, appearing to read "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: Ensolum, LLC				BILL TO				ANALYSIS REQUEST																
Project Manager: Tracy Hillard				P.O. #:																				
Address: 601 N Marienfeld Street, Suite 400				Company: XTO Energy, Inc																				
City: Midland State: TX Zip: 79701				Attn: Colton Brown																				
Phone #: 575-937-3906 Fax #:				Address: 3104 E Greene St																				
Project #: 03C15586654 Project Owner: XTO Energy				City: Carlsbad																				
Project Name: Brushy Draw 30-31 Federal Battery - Spill				State: NM Zip: 88220																				
Project Location: 32.091590, -103.918282				Phone #:																				
Sampler Name: Jesse Dorman				Fax #:																				
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING		TPH 8015	BTEX 8021	Chloride 4500											
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME								
	H252610	Bh 01	1'	61											4/30/25	10:10								

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Relinquished By:	Date: 5-1-25	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: 1300		All Results are emailed. Please provide Email address: JReich@ensolum.com
Relinquished By:	Date:	Received By:	BBell@ensolum.com, TMorrissey@ensolum.com, Jdorman@ensolum.com
	Time:		THillard@ensolum.com, KThomason@ensolum.com
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID #113
		<input type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor -0.5 to 0.38
			Bacteria (only) Sample Condition
			Cool Intact Observed Temp. °C
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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



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

May 09, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 05/08/25 13:50.

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

Cardinal Laboratories is 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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/08/2025	Sampling Date:	05/06/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: FS 01 2' (H252738-01)

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	05/08/2025	ND	1.96	98.0	2.00	1.09	
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591	
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538	
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127	
Total BTEX	<0.300	0.300	05/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/09/2025	ND	448	112	400	7.41	

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	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.7 % 40.6-153

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

Received:	05/08/2025	Sampling Date:	05/06/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: FS 02 2' (H252738-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	1.96	98.0	2.00	1.09		
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127		
Total BTEX	<0.300	0.300	05/08/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/09/2025	ND	448	112	400	7.41		

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	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.8 % 40.6-153

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

Received:	05/08/2025	Sampling Date:	05/06/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: FS 03 2' (H252738-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	1.96	98.0	2.00	1.09		
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127		
Total BTEX	<0.300	0.300	05/08/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/09/2025	ND	448	112	400	7.41	

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	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.4 % 40.6-153

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

Received:	05/08/2025	Sampling Date:	05/06/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: FS 04 2' (H252738-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	1.96	98.0	2.00	1.09		
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127		
Total BTEX	<0.300	0.300	05/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	16.0	16.0	05/09/2025	ND	448	112	400	7.41		

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	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.6 % 40.6-153

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

Received:	05/08/2025	Sampling Date:	05/06/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: FS 05 2' (H252738-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	1.96	98.0	2.00	1.09		
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127		
Total BTEX	<0.300	0.300	05/08/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/09/2025	ND	448	112	400	7.41	

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	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.6 % 40.6-153

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

Received:	05/08/2025	Sampling Date:	05/06/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: FS 06 2' (H252738-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	1.96	98.0	2.00	1.09		
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127		
Total BTEX	<0.300	0.300	05/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/09/2025	ND	448	112	400	7.41	

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	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.1 % 40.6-153

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

Received: 05/08/2025
 Reported: 05/09/2025
 Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER'
 Project Number: 03C15586654
 Project Location: XTO 32.091590, -103.918282

Sampling Date: 05/06/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 07 2' (H252738-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	1.96	98.0	2.00	1.09		
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127		
Total BTEX	<0.300	0.300	05/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/09/2025	ND	448	112	400	7.41		

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	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.1 % 40.6-153

Cardinal Laboratories

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

Received:	05/08/2025	Sampling Date:	05/06/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: FS 08 2' (H252738-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	1.96	98.0	2.00	1.09		
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127		
Total BTEX	<0.300	0.300	05/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	16.0	16.0	05/09/2025	ND	448	112	400	7.41		

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	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.5 % 40.6-153

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

Received:	05/08/2025	Sampling Date:	05/06/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: FS 09 2' (H252738-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	1.96	98.0	2.00	1.09		
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127		
Total BTEX	<0.300	0.300	05/08/2025	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	272	16.0	05/09/2025	ND	448	112	400	7.41		

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	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.9 % 40.6-153

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

Received:	05/08/2025	Sampling Date:	05/06/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: SW 01 0.5-2' (H252738-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	1.96	98.0	2.00	1.09		
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127		
Total BTEX	<0.300	0.300	05/08/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/09/2025	ND	448	112	400	7.41		

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	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.3 % 40.6-153

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

Received:	05/08/2025	Sampling Date:	05/06/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: SW 02 0.5-2' (H252738-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2025	ND	1.96	98.0	2.00	1.09	
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591	
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538	
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127	
Total BTEX	<0.300	0.300	05/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/08/2025	Sampling Date:	05/07/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: FS 10 1' (H252738-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	1.96	98.0	2.00	1.09		
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127		
Total BTEX	<0.300	0.300	05/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/08/2025	Sampling Date:	05/07/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: FS 11 1' (H252738-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	1.96	98.0	2.00	1.09		
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127		
Total BTEX	<0.300	0.300	05/08/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 94.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.0 % 40.6-153

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

Received:	05/08/2025	Sampling Date:	05/07/2025
Reported:	05/09/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C15586654	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.091590, -103.918282		

Sample ID: SW 03 0.5-1' (H252738-14)

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	05/08/2025	ND	1.96	98.0	2.00	1.09		
Toluene*	<0.050	0.050	05/08/2025	ND	2.09	104	2.00	0.591		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.11	106	2.00	0.538		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.66	111	6.00	0.127		
Total BTEX	<0.300	0.300	05/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	182	90.8	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	184	91.8	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.0 % 40.6-153

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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, appearing to read "C. D. Keene", written over a horizontal line.

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: Ensolum, LLC
Project Manager: Tracy Hillard
Address: 601 N Marlenfeld Street, Suite 400
City: Midland
Phone #: (575) 937-3406
Project #: 03C 15586654
Project Name: Brushy Draw 30-31 Federal Battery
Project Location: 32.091590 -103.918282
Sampler Name: Trevor Wargo

State: TX Zip: 79701
Fax #: Project Owner: XTO Energy
SPILLS

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

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	TPH 8015	BTEX 8021	Chloride 4500
1452738	FS01	2	C	1	GROUNDWATER	ACID/BASE:	DATE	TIME		
	FS02				WASTEWATER	ICE / COOL	05/06/25	12:36		
	FS03				SOIL	OTHER:		9:28		
	FS04				OIL			12:33		
	FS05				SLUDGE			7:38		
	FS06				OTHER:			9:42		
	FS07							9:47		
	FS08							9:53		
	FS09							9:57		
	SW01	0.5-2						10:00		
								12:30		

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Inquired By: Trevor Wargo
Date: 05/06/25
Time: 19:31
Received By: 8fedzigning
Date: 5-8-25
Time: 1350

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

REMARKS: Incident Number:
Cost Center:
GFCM: 48605000

Turnaround Time: 24h
Thermometer ID #113
Correction Factor 0.5°C

Standard ☐ Rush ☒
Bacteria (only) ☐ Yes ☐ No
Cool Intact ☐ Yes ☐ No
Sample Condition ☐ Yes ☐ No
Observed Temp. °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Tracy Hillard Address: 601 N Marienfeld Street, Suite 400 City: Midland State: TX Zip: 79701 Phone #: (575) 937-3906 Fax #: 03015586654 Project #: 03015586654 Project Name: Brushy Draw 30-31 Federal Battery SPILLS Project Location: 32,042590, -103.918282 Sampler Name: Trevor Wargo				BILL TO P.O. #: Company: XTO Energy, Inc Attn: Colton Brown Address: 3104 E Greene St City: Carlsbad State: NM Zip: 88220 Phone #: Fax #:				ANALYSIS REQUEST															
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		Depth (feet)		(G/RAB OR C/OMP.)		# CONTAINERS		MATRIX		PRESERV.		SAMPLING		TPH 8015		BTX 8021		Chloride 4500	
		H252738																					
		11 SW02		0.5-2		9		GROUNDWATER						ACID/BASE:		DATE							
		12 FS10		1		1		WASTEWATER						ICE / COOL		TIME							
		13 FS11		1		1		SOIL						OTHER:		05/06/25 10:28							
		14 SW03		0.5-1		1		OIL								05/07/25 11:28							
								SLUDGE								13:27							
								OTHER:								11:39							

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Relinquished By: Trevor Wargo Date: 05/06/25 Time: 15:31 Relinquished By: Date: 5-8-25 Time: 1350		Received By: 820adki'mey Date: Time:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com REMARKS: Incident Number: Cost Center: GFCM: 48605000	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 2.0 Corrected Temp. °C: 2.9		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) <input type="checkbox"/> Yes <input type="checkbox"/> No	
Turnaround Time: 24h Thermometer ID: #113 Correction Factor: -0.5°C		Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C		Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	



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

June 05, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FED BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/03/25 11:35.

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.

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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/03/2025	Sampling Date:	05/30/2025
Reported:	06/05/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C15586654 - SPILL	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.091590,-103.918282		

Sample ID: FS 12 1' (H253284-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2025	ND	2.10	105	2.00	5.11	
Toluene*	<0.050	0.050	06/03/2025	ND	2.06	103	2.00	4.91	
Ethylbenzene*	<0.050	0.050	06/03/2025	ND	2.00	100	2.00	3.88	
Total Xylenes*	<0.150	0.150	06/03/2025	ND	6.18	103	6.00	2.60	
Total BTX	<0.300	0.300	06/03/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/04/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	212	106	200	0.188	
DRO >C10-C28*	<10.0	10.0	06/03/2025	ND	195	97.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	06/03/2025	ND					

Surrogate: 1-Chlorooctane 79.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.0 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/03/2025	Sampling Date:	05/30/2025
Reported:	06/05/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C15586654 - SPILL	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.091590,-103.918282		

Sample ID: SW 04 0-1' (H253284-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/03/2025	ND	2.10	105	2.00	5.11		
Toluene*	<0.050	0.050	06/03/2025	ND	2.06	103	2.00	4.91		
Ethylbenzene*	<0.050	0.050	06/03/2025	ND	2.00	100	2.00	3.88		
Total Xylenes*	<0.150	0.150	06/03/2025	ND	6.18	103	6.00	2.60		
Total BTEX	<0.300	0.300	06/03/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/04/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	212	106	200	0.188	
DRO >C10-C28*	14.5	10.0	06/03/2025	ND	195	97.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	06/03/2025	ND					

Surrogate: 1-Chlorooctane 80.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.7 % 40.6-153

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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, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Tracy Hillard				P.O. #:															
Address: 3122 National Parks Hwy				Company: XTO Energy Inc.															
City: Carlsbad State: NM Zip: 88220				Attn: Colton Brown															
Phone #: 337 257-8307 Fax #:				Address: 3104 E. Green St.															
Project #: 03C15586654 Project Owner: XTO				City: Carlsbad															
Project Name: Brushy Draw 30-31 Federal Battery - Spill				State: NM Zip: 88220															
Project Location:				Phone #:															
Sampler Name: Connor Whitman				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING		BTEX	TPH	CHLORIDE						
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME				
H553284	FS12	1	C	1	/						/	/		5-30-25	1440	/	/		
2	SW64	0-1	C	1	/						/	/		5-30-25	1445	/	/		
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(45deg); opacity: 0.5;"></div>																			

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Relinquished By: <i>CH</i>	Date: 6-3-25 Time: 11:35	Received By: <i>Connor Whitman</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: THillard@ensolum.com, TMorrissey@ensolum.com, kthomason@ensolum.com
Delivered By: (Circle One)	Observed Temp. °C: 3.1	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	REMARKS: Cost Center: 2027691371 Incident ID: nAPP2510144544
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 34	Checked By: <i>Y.O.</i>	GFCM: 48805000
		Turnaround Time: #140 Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>
		Thermometer ID: #143	Observed Temp. °C:
		Correction Factor: -0.5 °C	Corrected Temp. °C:

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

QUESTIONS

Action 483327

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 483327
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2510144544
Incident Name	NAPP2510144544 BRUSHY DRAW 30-31 FED BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	Brushy Draw 30-31 FED Battery
Date Release Discovered	04/10/2025
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	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Other (Specify) Produced Water Released: 46 BBL Recovered: 45 BBL Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Corrosion on a water line

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Energy, Minerals and Natural Resources
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QUESTIONS, Page 2

Action 483327

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 483327
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<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.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 04/11/2025
--	--

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Phone: (505) 476-3441

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS, Page 3

Action 483327

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 483327
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>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.</i>	
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)	432
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	14.5
GRO+DRO (EPA SW-846 Method 8015M)	14.5
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	04/10/2025
On what date will (or did) the final sampling or liner inspection occur	05/30/2025
On what date will (or was) the remediation complete(d)	05/30/2025
What is the estimated surface area (in square feet) that will be reclaimed	2220
What is the estimated volume (in cubic yards) that will be reclaimed	120
What is the estimated surface area (in square feet) that will be remediated	2220
What is the estimated volume (in cubic yards) that will be remediated	120
<i>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.</i>	
<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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 483327

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 483327
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>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>	
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: Ashley McAfee Email: ashley.a.mcafee@exxonmobil.com Date: 07/09/2025
<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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QUESTIONS, Page 5

Action 483327

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 483327
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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, Page 6

Action 483327

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 483327
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	467980
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/30/2025
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

Remediation Closure Request	
<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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2220
What was the total volume (cubic yards) remediated	120
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2220
What was the total volume (in cubic yards) reclaimed	120
Summarize any additional remediation activities not included by answers (above)	Site assessment, delineation and excavation activities were conducted at the Site to address the April 10, 2025, produced water release. Laboratory analytical results for all confirmation soil samples collected from the final excavation extent indicated that all COC concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required. The excavation will be backfilled with material purchased locally and the Site recontoured to match pre-existing Site conditions.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Ashley McAfee Email: ashley.a.mcafee@exxonmobil.com Date: 07/09/2025

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QUESTIONS, Page 7

Action 483327

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 483327
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 483327

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 483327
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	8/11/2025