



May 29, 2026

New Mexico Oil Conservation Division

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

**Re: Closure Request
Western CDP
Incident Number nAPP2519241839
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, delineation, excavation, and soil sampling activities at the Western CDP (Site). The purpose of the Site sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil. 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 nAPP2519241839.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 09, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.063703°, -103.880562°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 10, 2025, equipment failure of a pipeline resulted in the release of approximately 145 barrels (bbls) of crude oil onto the surface of the well pad. XTO immediately dispatched a vacuum truck, and approximately 140 bbls of fluids were recovered. XTO submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on July 11, 2025. The release was assigned Incident Number nAPP2519241839.

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 estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On February 16, 2026, a soil boring permitted by New Mexico Office of the State Engineer (OSE) well C-5064, located approximately 0.01 miles west of the Site was drilled utilizing hollow stem auger drilling method. The boring was drilled to a total depth of 102 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for the potential slow infill of groundwater. After the 72-hour waiting

period without observing groundwater, it was confirmed that groundwater at that location is greater than 102 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry seasonal riverine located approximately 1,394 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is potentially underlain by unstable geology. Per the New Mexico Oil and Gas Map, the Site is within medium potential karst designation area. Southwest Geophysical Consulting, a Bureau of Land Management (BLM)-approved third-party cave/karst contractor, conducted a desktop survey, aerial survey, and geophysical survey of the Site. In summary, no surface karst features within the 200-foot survey area surrounding the release extent were identified in the desktop or surface karst surveys. Results of the geophysical study indicated a well-layered geologic system is present beneath the Site with no anomalies in the data that would be consistent with air-filled subsurface voids or a pathway to groundwater, confirming the absence of karst below the Site. A copy of the karst survey is included in Appendix B. Potential Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On July 22, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations and to complete delineation activities. Two delineation potholes (PH01 and PH02) were collected within the release extent and advanced to a maximum depth of 6 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 0.5 feet bgs to 6 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using 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 release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix D.

Between October 2 and October 3, 2025, Ensolum personnel returned to the Site to complete lateral delineation of the release. Ten delineation soil samples (SS01 through SS10) were collected around the release extent from a depth of approximately 0.5 feet bgs. Soil samples were field screened for VOCs and chloride in the same manner described above. The delineation soil sample locations are depicted on Figure 2.

All 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 Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500Cl-B.

Laboratory analytical results for delineation soil samples PH01 and PH02, collected from a depth of 0.5 feet bgs and 2 feet bgs respectively, indicated that the soil contained concentrations of TPH and TPH-GRO/TPH-DRO exceeding the proposed Closure Criteria. The soil sample from PH01 collected from a depth of 0.5 feet bgs also contained BTEX in excess of the proposed Closure Criteria. Laboratory analytical results for all other delineation soil sample depths collected at PH01 and PH02 as well as delineation soil samples SS01 through SS11 indicated all COC concentrations were compliant with the proposed Closure Criteria.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between July 23 to October 15, 2025, Ensolum personnel were at the Site to oversee excavation activities as indicated by visible staining, field screening activities, and laboratory analytical results from the delineation soil samples. Excavation activities were performed using a backhoe and transport vehicles to a maximum depth of 4 feet bgs. The excavation occurred on the well pad near the production equipment. 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 resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples CS01 through CS05 were collected from the release extent outside the excavation from a depth of 0.5 feet bgs. Confirmation soil samples FS01 through FS61 were collected from the floor of the excavation at depths ranging from 2 feet to 4 feet bgs. Confirmation sidewall soil samples SW01 through SW17 were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. The excavation extent and confirmation soil sample locations are presented on Figure 3. Photographic documentation is included in Appendix D.

The excavation soil samples were handled, transported, and analyzed as described above. The final excavation extent measured approximately 12,050 square feet. A total of approximately 1,120 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. After completion of confirmation sampling, the excavation area was backfilled with clean, like material.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final confirmation soil samples collected indicated that all COC concentrations were compliant with the Closure Criteria, confirming the lateral and vertical extents of the release. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included as Appendix E.

XTO Energy, Inc
Closure Request
Western CDP



CLOSURE REQUEST

Site assessment, delineation and excavation activities were conducted at the Site to address the July 10, 2025, release of crude oil. Laboratory analytical results for the final 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. XTO backfilled the excavation with material purchased locally and recontoured to match pre-existing site conditions.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no sensitive receptors were identified at the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2519241839.

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

Sincerely,
Ensolum, LLC

Tracy Hillard
Project Engineer

Tacoma Morrissey
Associate Principal

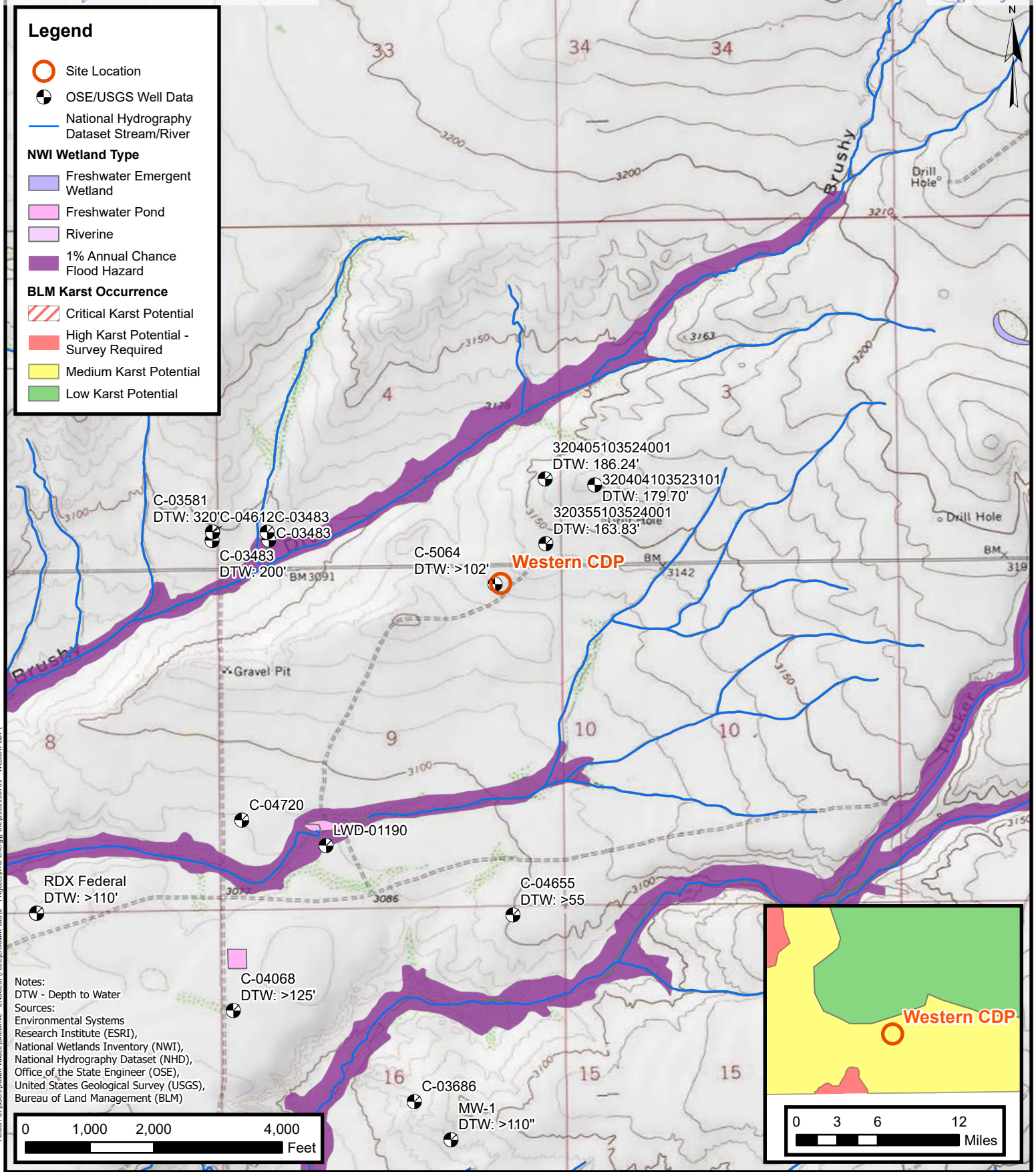
cc: Robert Woodall, XTO
Richard Kotzur, XTO
BLM

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 Karst Survey Results
- Appendix C Lithologic Soil Sampling Logs
- Appendix D Photographic Log
- Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix F Spill Volume Calculation



FIGURES

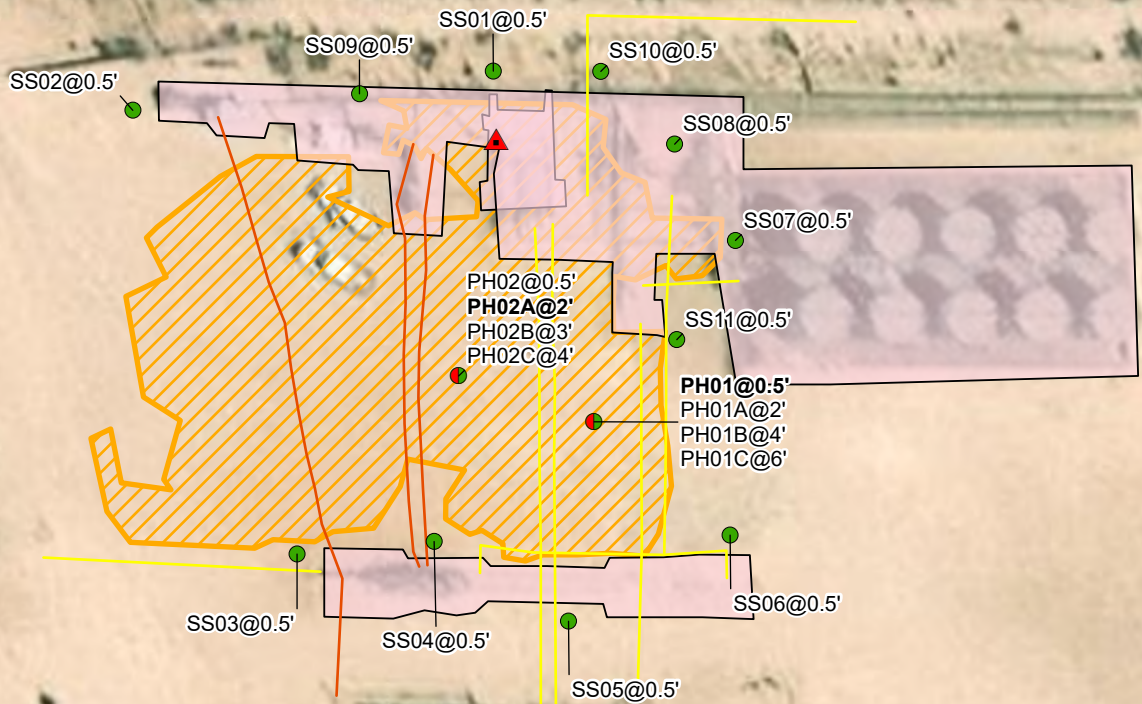


Site Receptor Map
 XTO Energy, Inc.
 Western CDP
 Incident Number: nAPP2519241839
 Unit A, Section 09, T 26S, R 30E
 Eddy County, New Mexico

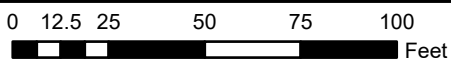
FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Point of Release (POR)
- Oil and Gas Utility Line
- Electric Line
- Infrastructure
- Release Extent



Notes:
 Sample ID @ Depth Below Ground/Surface.
 Samples in bold indicate sample exceeded applicable Closure Criteria.



Sources: Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

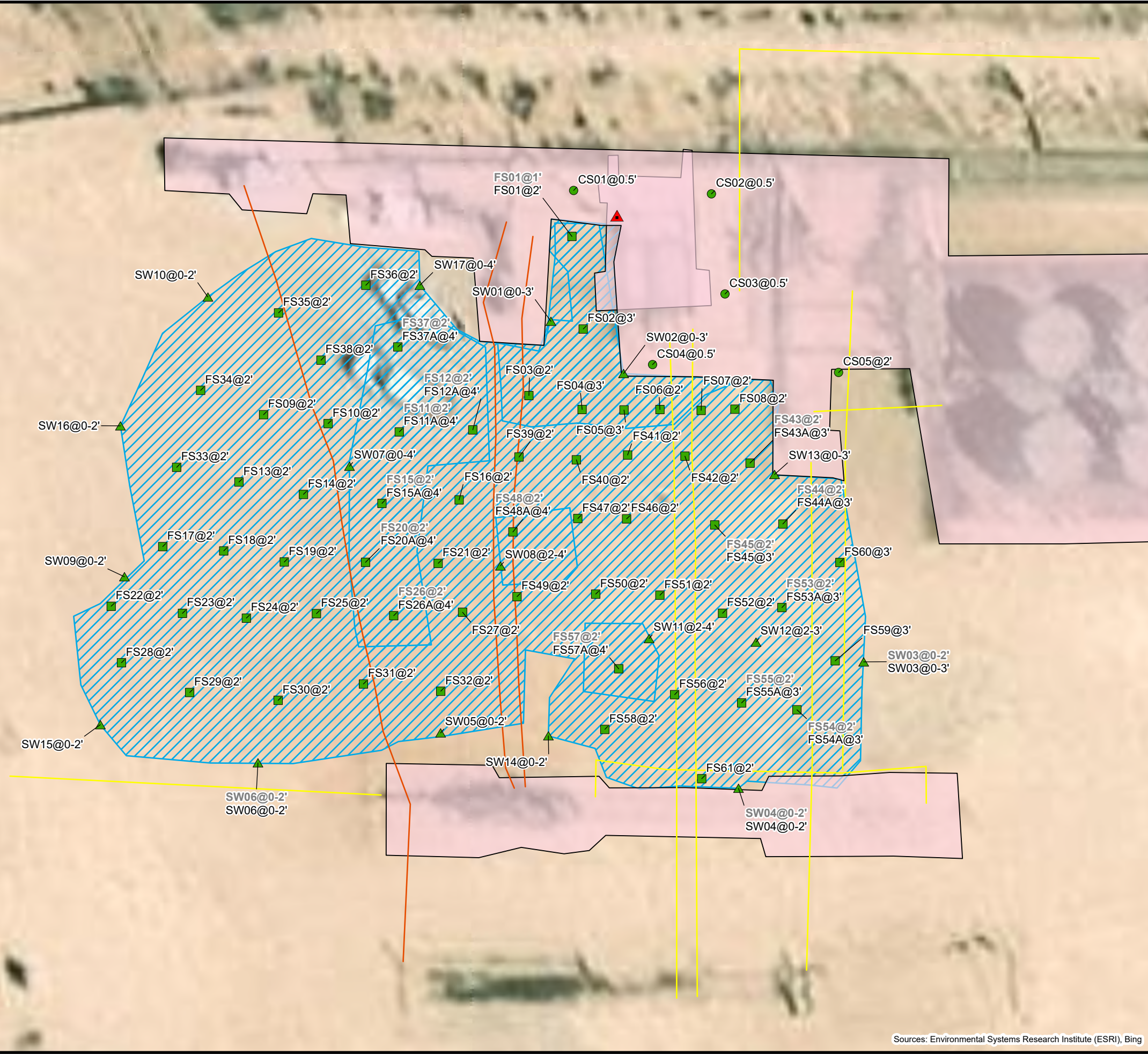
XTO Energy, Inc.
Western CDP

Incident Number: nAPP2519241839
Unit A, Section 09, T 26S, R 30E
Eddy County, New Mexico

FIGURE

2





Legend

- Confirmation Floor Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- Confirmation Composite Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- Oil and Gas Utility Line
- Electric Utility Line
- Infrastructure
- Excavation 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.

Confirmation Soil Sample Locations
 XTO Energy, Inc.
 Western CDP
 Incident Number: nAPP2519241839
 Unit A, Section 09, T 26S, R 30E
 Eddy County, New Mexico

FIGURE
3



Sources: Environmental Systems Research Institute (ESRI), Bing

Document Path: C:\Users\julin.Velazquez\OneDrive - ENSOLUM, L.L.C\OneDrive - ENSOLUM, L.L.C\Projects\XTO Energy, Inc\03C1559701 - Western CDP\Map.aprx



TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Western CDP
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)
NMOCB Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Assessment Soil Samples										
PH01	07/22/2025	0.5	5.85	329	5,490	12,100	925	17,590	18,515	16.0
PH01A	07/22/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH01B	07/22/2025	4	<0.050	<0.300	<10.0	131	<10.0	131	131	48.0
PH01C	07/22/2025	6	<0.050	<0.300	<10.0	17.4	<10.0	17.4	17.4	256
PH02	07/22/2025	0.5	<0.050	<0.300	11.9	189	<10.0	201	201	32.0
PH02A	07/22/2025	2	<0.050	6.81	196	1,060	95.7	1,256	1,352	32.0
PH02B	07/22/2025	3	<0.050	<0.300	<10.0	53.0	<10.0	53.0	53.0	32.0
PH02C	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS01	10/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS02	10/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS03	10/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS04	10/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS05	10/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS06	10/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS07	10/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS08	10/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS09	10/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS10	10/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS11	10/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
Confirmation Soil Samples										
CS01	10/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS02	10/02/2025	0.5	<0.050	<0.300	<10.0	10.5	<10.0	10.5	10.5	48.0
CS03	10/02/2025	0.5	<0.050	<0.300	<10.0	11.9	<10.0	11.9	11.9	<16.0
CS04	10/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS05	10/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS01	07/31/2025	2	<0.050	<0.300	<10.0	44.0	<10.0	44.0	44.0	80.0
FS02	08/01/2025	3	<0.050	<0.300	<10.0	171	15.6	171	187	80.0
FS03	08/01/2025	2	<0.050	<0.300	<10.0	343	44.4	343	387	32.0
FS04	08/01/2025	3	<0.050	<0.300	<10.0	93.8	11.6	93.8	105	48.0
FS05	08/01/2025	3	<0.050	<0.300	<10.0	73.2	<10.0	73.2	73.2	48.0
FS06	08/01/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS07	08/01/2025	2	<0.050	<0.300	<10.0	77.4	<10.0	77.4	77.4	48.0
FS08	08/01/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Confirmation Soil Samples										
FS09	08/11/2025	2	<0.050	<0.300	<10.0	23.8	<10.0	23.8	23.8	80.0
FS10	08/11/2025	2	<0.050	<0.300	<10.0	299	39.3	299	338	80.0



**TABLE 1
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Western CDP
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)
NMOCB Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS11	08/11/2025	2	<0.050	<0.300	<10.0	585	81.4	585	666	32.0
FS11A	08/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS12	08/11/2025	2	<0.050	<0.300	28.1	1,350	174	1,378	1,552	48.0
FS12A	08/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS13	08/11/2025	2	<0.050	<0.300	<10.0	70.7	<10.0	70.7	70.7	80.0
FS14	08/11/2025	2	<0.050	<0.300	<10.0	138	18.3	138	156	80.0
FS15	08/11/2025	2	<0.050	<0.300	21.3	1,540	188	1,561	1,749	32.0
FS15A	08/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS16	08/11/2025	2	<0.050	<0.300	<10.0	569	74.4	569	643	48.0
FS17	08/11/2025	2	<0.050	<0.300	<10.0	442	66.6	442	509	80.0
FS18	08/11/2025	2	<0.050	<0.300	<10.0	21.3	<10.0	21.3	21.3	64.0
FS19	08/11/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS20	08/11/2025	2	<0.050	<0.300	10.0	1,150	148	1,160	1,308	32.0
FS20A	08/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS21	08/11/2025	2	<0.050	<0.300	<10.0	501	69.3	501	570	16.0
FS22	08/11/2025	2	<0.050	<0.300	<10.0	80.1	<10.0	80.1	80.1	64.0
FS23	08/11/2025	2	<0.050	<0.300	<10.0	81.4	<10.0	81.4	81.4	32.0
FS24	08/11/2025	2	<0.050	<0.300	<10.0	80.6	<10.0	80.6	80.6	32.0
FS25	08/12/2025	2	<0.050	<0.300	<10.0	26.4	<10.0	26.4	26.4	32.0
FS26	08/12/2025	2	<0.050	<0.300	<10.0	1,490	253	1,490	1,743	32.0
FS26A	08/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS27	08/12/2025	2	<0.050	<0.300	<10.0	532	101	532	633	48.0
FS28	08/12/2025	2	<0.050	<0.300	<10.0	254	38.3	254	292	48.0
FS29	08/12/2025	2	<0.050	<0.300	<10.0	105	<10.0	105	105	64.0
FS30	08/12/2025	2	<0.050	<0.300	<10.0	51.5	<10.0	51.5	51.5	32.0
FS31	08/12/2025	2	<0.050	<0.300	<10.0	250	38.5	250	289	32.0
FS32	08/12/2025	2	<0.050	<0.300	<10.0	493	96.8	493	590	32.0
FS33	08/12/2025	2	<0.050	<0.300	<10.0	18.0	<10.0	18.0	18.0	80.0
FS34	08/12/2025	2	<0.050	<0.300	<10.0	173	21.2	173	194	64.0
FS35	08/12/2025	2	<0.050	<0.300	<10.0	255	36.7	255	292	48.0
FS36	08/12/2025	2	<0.050	<0.300	<10.0	240	32.2	240	272	64.0
Confirmation Soil Samples										
FS37	08/12/2025	2	<0.050	<0.300	<10.0	1,290	248	1,290	1,508	32.0
FS37A	08/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS38	08/12/2025	2	<0.050	<0.300	<10.0	442	78.5	442	521	64.0
FS39	08/12/2025	2	<0.050	<0.300	<10.0	201	30.2	201	231	48.0
FS40	08/12/2025	2	<0.050	<0.300	<10.0	861	135	861	996	64.0



**TABLE 1
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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)
NMOCB Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS41	08/12/2025	2	<0.050	<0.300	<10.0	893	130	893	1,023	64.0
FS42	08/12/2025	2	<0.050	<0.300	<10.0	397	49.0	397	446	32.0
FS43	08/12/2025	2	<0.050	<0.300	<10.0	1,200	174	1,200	1,374	48.0
FS43A	08/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS44	08/12/2025	2	<0.050	<0.300	10.1	1,650	221	1,660	1,881	32.0
FS44A	08/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS45	08/12/2025	2	<0.050	<0.300	<10.0	1,080	147	1,080	1,227	48.0
FS45A	08/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS46	08/12/2025	2	<0.050	<0.300	<10.0	796	119	796	915	32.0
FS47	08/12/2025	2	<0.050	<0.300	<10.0	951	144	951	1,095	32.0
FS48	08/12/2025	2	<0.050	<0.300	10.0	2,090	303	2,100	2,403	96.0
FS48A	08/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS49	08/12/2025	2	<0.050	<0.300	<10.0	299	44.5	299	344	32.0
FS50	08/12/2025	2	<0.050	<0.300	<10.0	476	69.3	476	545	32.0
FS51	08/12/2025	2	<0.050	<0.300	<10.0	606	86.9	606	693	32.0
FS52	08/12/2025	2	<0.050	<0.300	<10.0	854	122	854	976	16.0
FS53	08/12/2025	2	<0.050	0.997	38.4	1,720	228	1,758	1,986	64.0
FS53A	08/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS54	08/12/2025	2	<0.050	3.18	142	4,170	517	4,312	4,829	32.0
FS54A	08/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS55	08/12/2025	2	<0.050	<0.300	<10.0	1,260	186	1,260	1,446	32.0
FS55A	08/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS56	08/12/2025	2	<0.050	<0.300	<10.0	752	117	752	869	48.0
FS57	08/12/2025	2	<0.050	<0.300	<10.0	1,090	179	1,090	1,269	64.0
FS57A	08/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS58	08/12/2025	2	<0.050	<0.300	<10.0	424	58.9	424	483	64.0
FS59	08/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS60	08/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS61	10/03/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
Confirmation Soil Samples										
SW01	08/01/2025	0-3	<0.050	0.312	<10.0	250	34.6	250	285	48.0
SW02	08/01/2025	0-3	<0.050	1.12	22.4	296	42.2	318	361	64.0
SW03	08/13/2025	0-2	<0.050	1.79	56.6	3,890	667	3,947	4,614	48.0
SW03	08/21/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW04	08/13/2025	0-2	<0.050	<0.300	<10.0	2,050	355	2,050	2,405	64.0
SW04	10/03/2025	0-2	<0.050	<0.300	<10.0	106	<10.0	106	106	48.0
SW05	08/13/2025	0-2	<0.050	<0.300	<10.0	149	25.5	149	175	48.0



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Western CDP
XTO Energy, Inc
Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW06	08/13/2025	0-2	<0.050	<0.300	<10.0	704	424	704	822	48.0
SW06	08/21/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW07	08/19/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW08	08/19/2025	2-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW09	08/21/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW10	08/21/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW11	08/21/2025	2-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW12	08/21/2025	2-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW13	10/15/2025	0-3	<0.050	<0.300	<10.0	19.4	<10.0	19.4	19.4	48.0
SW14	10/15/2025	0-2	<0.050	<0.300	<10.0	27.6	<10.0	27.6	27.6	64.0
SW15	10/15/2025	0-2	<0.050	<0.300	<10.0	13.7	<10.0	13.7	13.7	64.0
SW16	10/15/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW17	10/15/2025	0-4	<0.050	<0.300	<10.0	38.8	<10.0	38.8	38.8	64.0

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

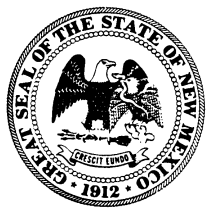
NMAC: New Mexico Administrative Code

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.)		WELL TAG ID NO.		OSE FILE NO(S).		
	WELL OWNER NAME(S)				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS				CITY	STATE	ZIP
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LATITUDE		N			
LONGITUDE		W					
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							

2. DRILLING & CASING INFORMATION	LICENSE NO.		NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY		
	DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)			
	COMPLETED WELL IS:		ARTESIAN *add Centralizer info below	DRY HOLE	SHALLOW (UNCONFINED)	STATIC WATER LEVEL IN COMPLETED WELL (FT)	DATE STATIC MEASURED	
	DRILLING FLUID:		AIR	MUD	ADDITIVES - SPECIFY:			
	DRILLING METHOD:		ROTARY	HAMMER	CABLE TOOL	OTHER - SPECIFY:		CHECK HERE IF PITLESS ADAPTER IS INSTALLED
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						

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

FOR OSE INTERNAL USE

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

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

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		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				
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
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					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP AIR LIFT BAILER OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	

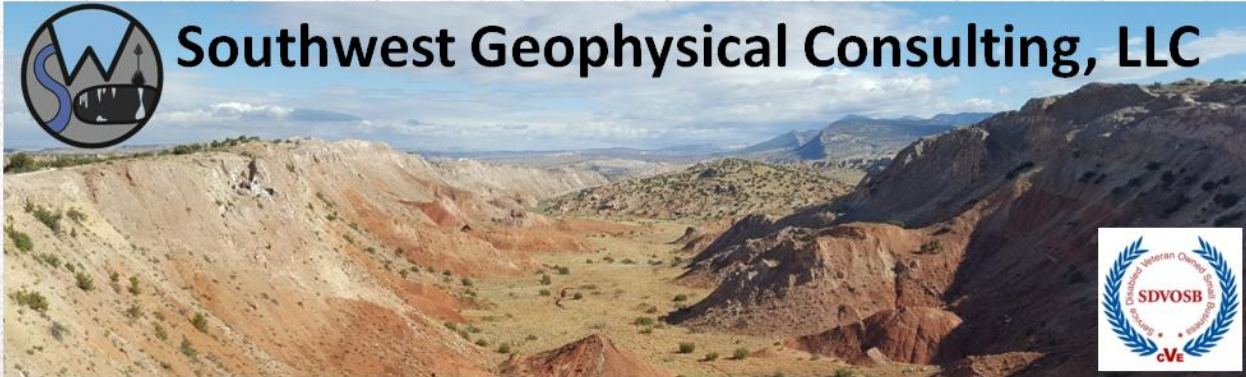
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <hr style="width:80%; margin-left:auto; margin-right:auto;"/> <div style="display: flex; justify-content: space-between; width: 80%; margin-left: auto; margin-right: auto;"> SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE </div>
--------------	---

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



Appendix B

Karst Survey Results



**Environmental Karst Study Report
XTO Western CDP
Eddy County, New Mexico**

**Prepared For:
Ensolum, LLC
3122 National Parks Highway
Carlsbad, NM 88220**

Within 200 feet of the spill delineation boundary:

- Negative Positive for surface karst
- Stable Unstable Ground
- Karst Monitor Recommended

May 28, 2026

ENS-020B-20250813

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1.0 INTRODUCTION

This report was commissioned by Ensolum, LLC (hereinafter referred to as "the client"), on August 13, 2025, for the purpose of conducting an environmental karst study within an area encompassing the XTO Western CDP release site (hereinafter termed "XWST") centered at N 32.063670° W 103.879660°.

1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC^[1]), and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions^[2]) within 200 feet of the spill boundary of the XTO Western CDP release as provided by the client via e-mail (**XTO Western CDP.kmz**) on August 13, 2025, using electrical resistivity imaging^[3].

1.2 Summary of Findings

- **No surface karst features exist within the 200-foot (61-meter) perimeter of the spill delineation boundary.**
- **No anomalies consistent with subsurface air- or water-filled voids were found within the XWST geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.**
- **Flat-lying stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground.**

1.3 Affected Environment

The XWST project is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns that need to be considered in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers^[4]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **MEDIUM** karst occurrence zone (MKOZ)^[5] (**Figure 1**).

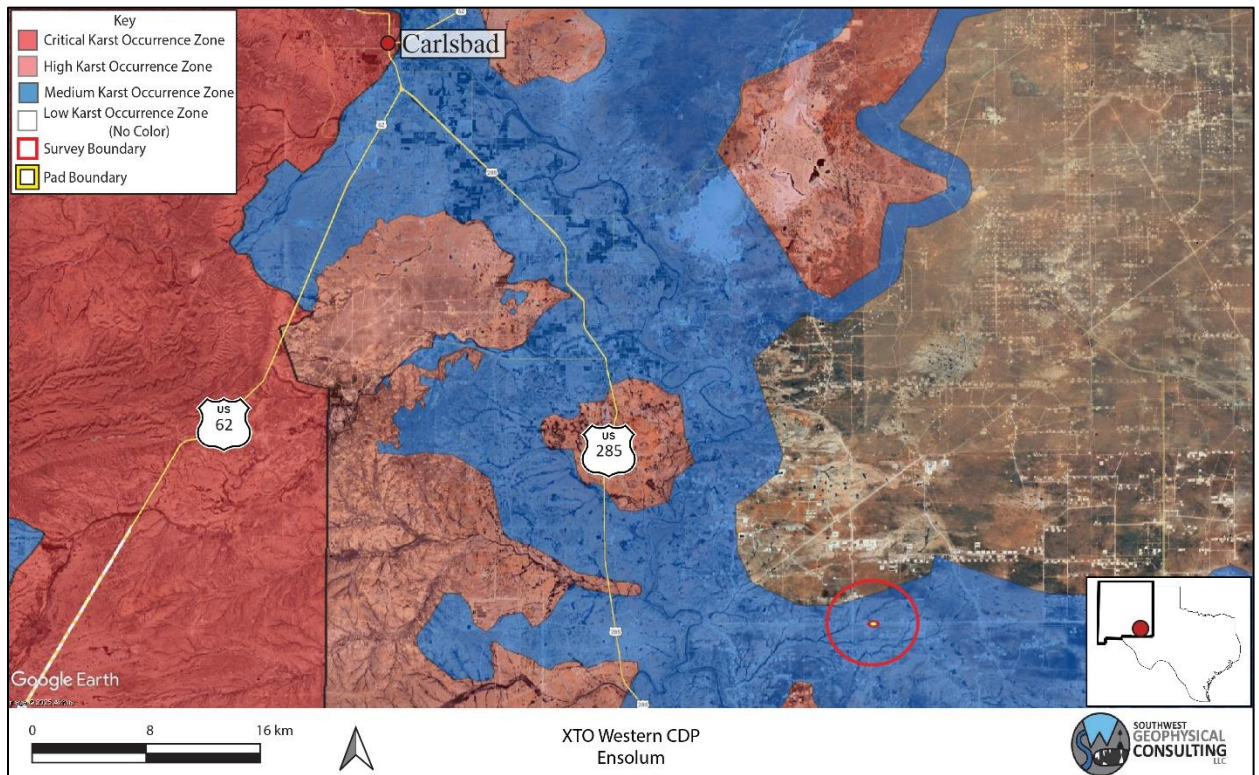


Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: December 31, 2023. Image datum: WGS-84.

A medium karst occurrence zone is defined as an area in known soluble rock types that may have a shallow insoluble overburden. These areas may contain isolated karst features such as caves and sinkholes. Groundwater recharge may not be wholly dependent on karst features, but the karst features still provide the most rapid aquifer recharge in response to surface runoff^[4].

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of Ensolum, LLC, in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on-site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results in the field should be conducted prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond two years past the date of the field work provided in section **2.3 Description of Survey**. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The site is located 51.2 kilometers (31.8 miles) southeast of Carlsbad, New Mexico, south of and adjacent to Pipeline Road in an area known as Red Bluffs. The pad boundary is located within the NE ¼ section of section 9, NM T26S R30E^[6] (**Figure 1** and **Figure 2**). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock^[7] (see section **2.2 Local Geology Summary** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January^[8]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map^[9] and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The survey boundary is located within an MKOZ^[5] (**Figure 1**) and within BLM-CFO managed land^[10] (**Figure 2**).

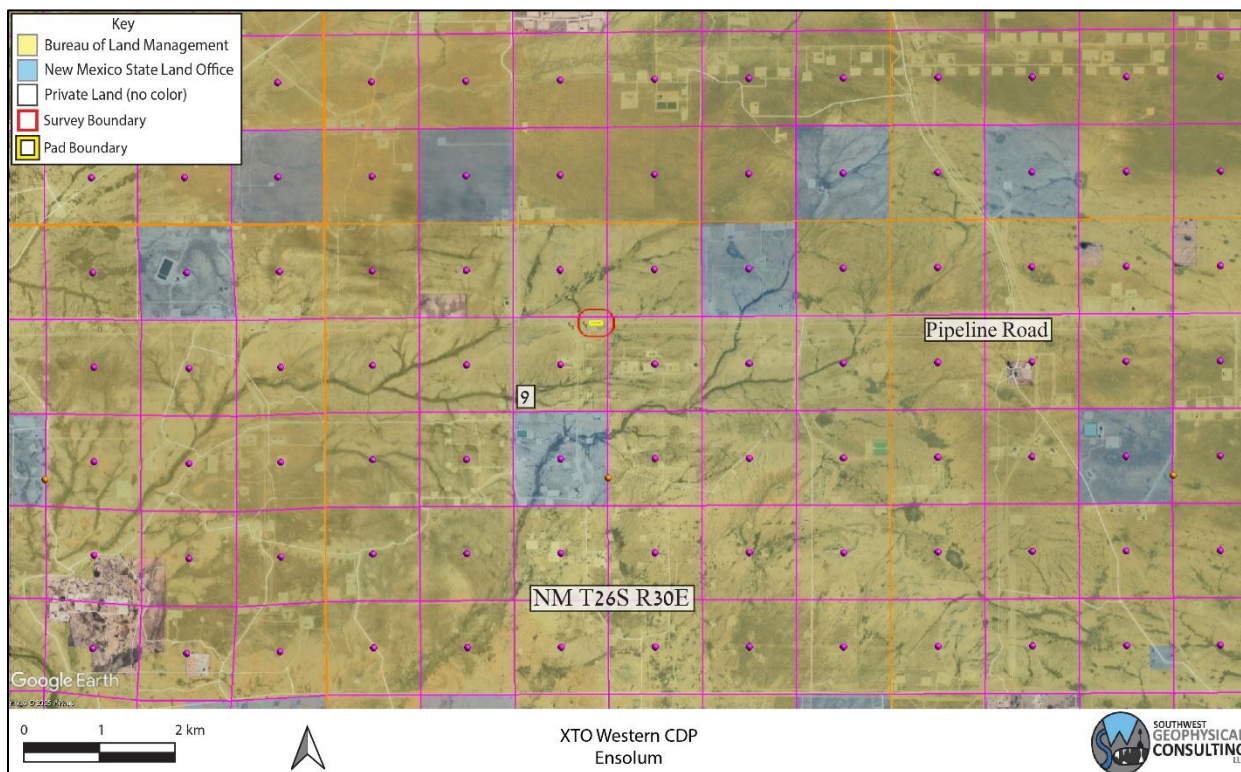


Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: December 31, 2023. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the XWST survey is located at an elevation of 956 meters (3,136 feet), ± 2 meters (6.6 feet), and is located within a region entirely underlain by the Permian Dewey Lake (Pdl) and Rustler (Pru) Formations. The area is mantled by thin gypsiferous soils (gypsite), Quaternary alluvium (Qal) and eolian sands (Qe)^[11] up to 5 meters in depth (**Figure 3**).

The Dewey Lake Formation is composed of calcite-cemented, hematite-stained quartz sand grains^[12] and occasional gypsum lenses and can, in favorable conditions, form cavernous porosity within 30 meters of the top of the Rustler Formation^[13]. The Dewey Lake Formation is also known to be highly fractured near areas of heavy halite dissolution such as Nash Draw (approximately 35 kilometers northwest), and these fractures can act as hydrologic conduits.

The Rustler Formation is an evaporite facies and is composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite and gypsum^[12], and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members). The Forty-niner and Tamarisk members are known to have highly developed karst features including large voids and solution-enlarged fractures^[14].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale^[15] and the Digital Geologic Map of New Mexico in ARC/INFO Format^[11].

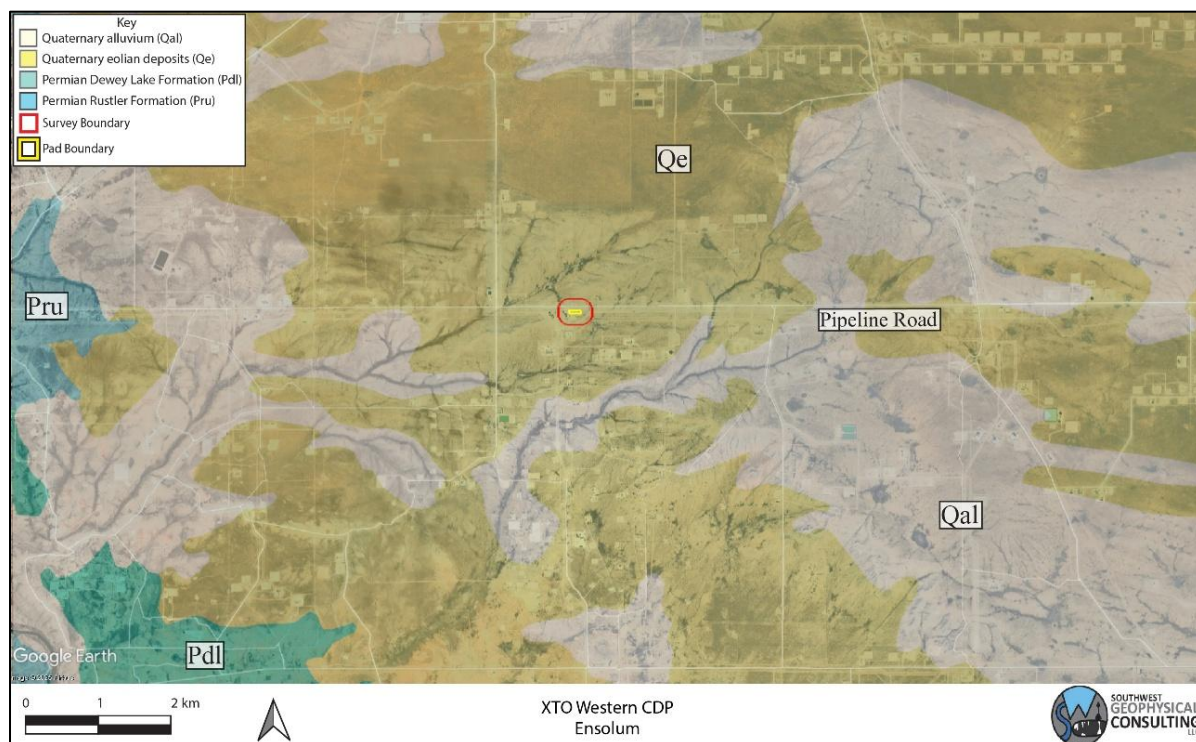


Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: December 31, 2023. Image datum: WGS-84.

2.3 Description of Survey

2.3.1 Surface Karst Survey

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides surface karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The surface karst survey includes a desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance^[1] (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated December 31, 2023 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated August 10, 2025^[16]; the Ross Ranch, NM, 1:24,000 quad, 1968, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the survey boundary.

Surface karst surveys are conducted by sUAS at low elevation within 200 meters of the spill delineation boundary^[4] (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report^[17].

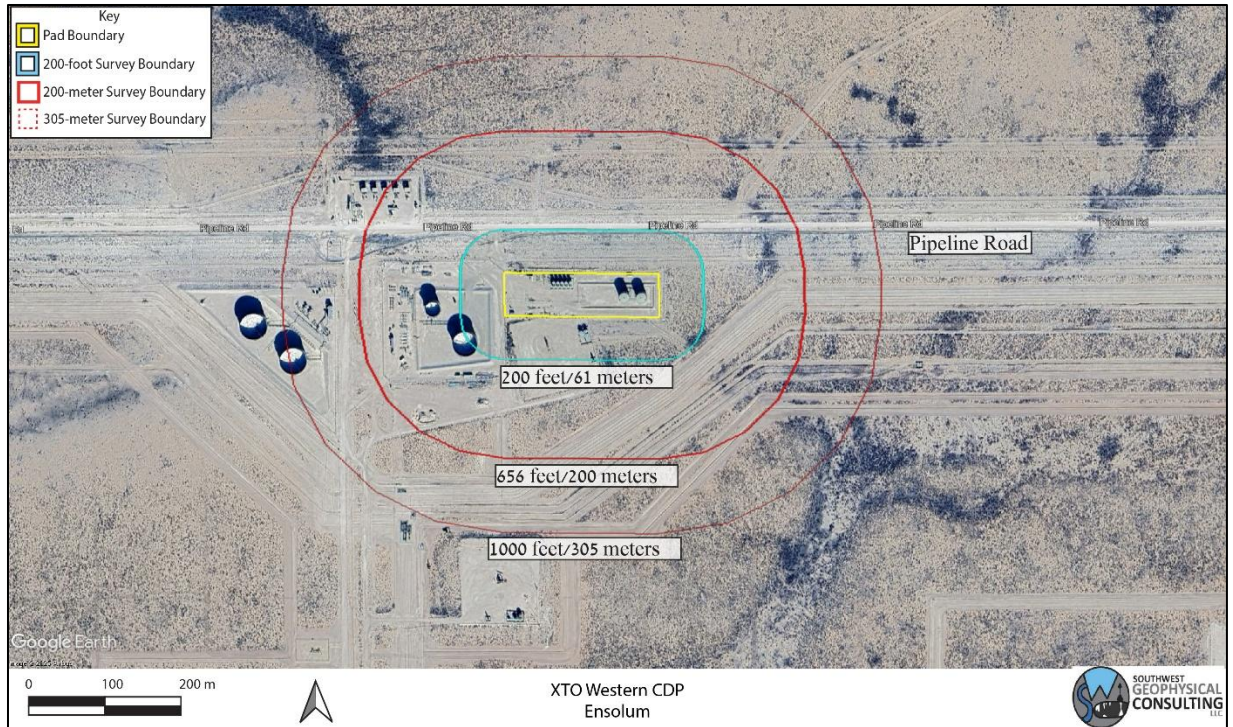


Figure 4: Surface karst survey overview. Background image credit: Google Earth. Image date: December 31, 2023. Datum: WGS-84.

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via sUAS by Pat Lagodney of SWCA on August 27, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Dave Decker of Southwest Geophysical Consulting on September 4, 2025.

2.3.2 Geophysical Survey

For this survey, a Guideline Geo Terrameter LS 2 and a 42-electrode array of 40-centimeter-long electrodes were used to image the subsurface. This survey consisted of one resistivity line of 42 electrodes at 5-meter spacing in a dipole-dipole configuration laid out west to east, resulting in a 205-meter-long array (**Figure 5, Table 1**). A preconfigured protocol file was used to run the data collection (DipoleDipole3x14). This electrode configuration provided a depth of investigation of 41 meters (135 feet) and a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.



Figure 5: Geophysical survey overview. One survey line was conducted with 42 electrodes (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: December 31, 2023. Datum: WGS-84.

Table 1 provides basic line data. Detailed information for each line including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files XWST_ERI_Points.xlsx and ENS-020-20250813_XWST_Data_Files.kmz.

File Name:	Completed By:	Date:
XWST01.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Aaron Beirl – Field Geologist Ryan Palmer – GIS Specialist	9/8/2025

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of “stable” or “unstable” ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was “average apparent resistivity” and a default inversion setting of “surface,” with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω-m) and a max apparent resistivity set to 100,000 Ω-m (**Table 2**).

Table 2: Software Information and Settings

Software Name:	EarthImager™ 2D
Version:	2.4.4.649
Starting Model:	Average Apparent Resistivity
Default Inversion Settings:	Surface
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 kΩ-m Min Apparent Resistivity = 0.1 Ω-m

Note: Raw data files (.dat files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .dat files) are available upon request.

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, Aaron Beirl, and Ryan Palmer on September 8, 2025.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features within 305 meters (1,000 feet)^[1] of the spill delineation boundary (Figure 6).

No springs exist within the 305-meter (1,000-foot)^[1] survey boundary (Figure 6).

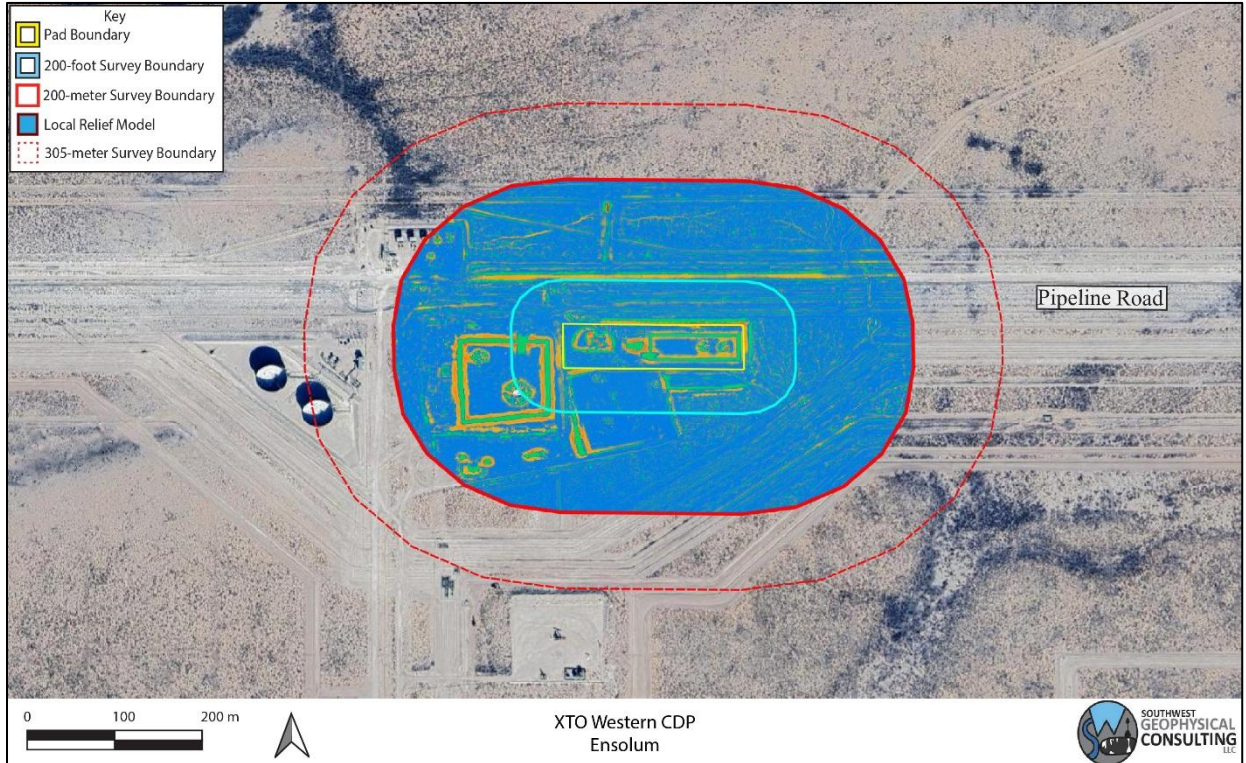


Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: December 31, 2023. Image datum: WGS-84.

3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a well-layered geologic system with resistivities between 10 and 1,358 Ohm-m. One low-resistivity anomaly with a value of 1.9 Ohm-m is present underneath electrode 14 at a depth of 10 – 20 meters (**Figure 7**). Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

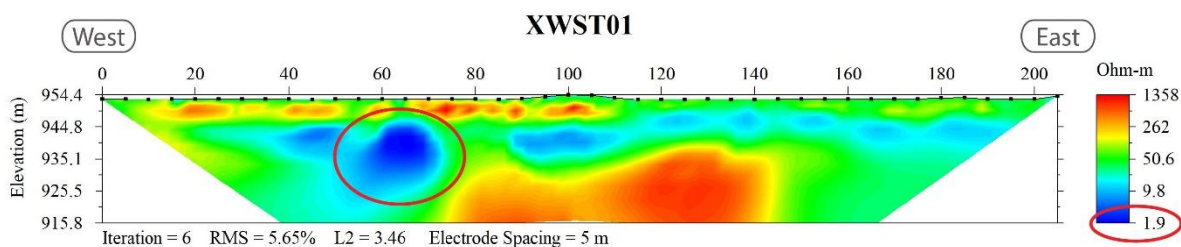


Figure 7: 2D inverted resistivity sections. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Red ellipse highlights low-resistivity anomaly. Please note that the color scale is relative.

4.0 DISCUSSION

One low-resistivity anomaly with a value of 1.9 Ohm-m is found within the XWST geophysical survey area. Due to the water table being at a depth that is greater than that of the depth of investigation of this survey, it is unlikely that the anomaly represents a fluid-filled void. Instead, it is most likely either a result of nearby buried utilities (**Figure 8**).

No surface karst features and no anomalies consistent with air-filled subsurface voids are found within the XWST survey area. However, small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 – 3.0 meters) may be present. Slightly higher-than-average resistivity areas less than 10 meters beneath the surface are interpreted as sand, caliche, or sandstone of the Dewey Lake Formation, or dry caliche soils and gypsum or dolomite bedrock of the Rustler Formation. Due to their much lower resistivity values when compared with significant subsurface voids, these features should not be a concern during remediation efforts^[18] (**Figure 7** and **Figure 8**).

Low-resistivity areas between 1.9 – 15 Ohm-m may either represent a layer of either clays and halite lenses or moist or saturated layers within the Dewey Lake or Rustler Formations, but is most likely the result of buried utilities (**Figure 7**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Employing a BLM-CFO approved karst monitor on site during any drilling and/or remediation activities that require excavation below four feet in depth should be considered.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5 – 3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

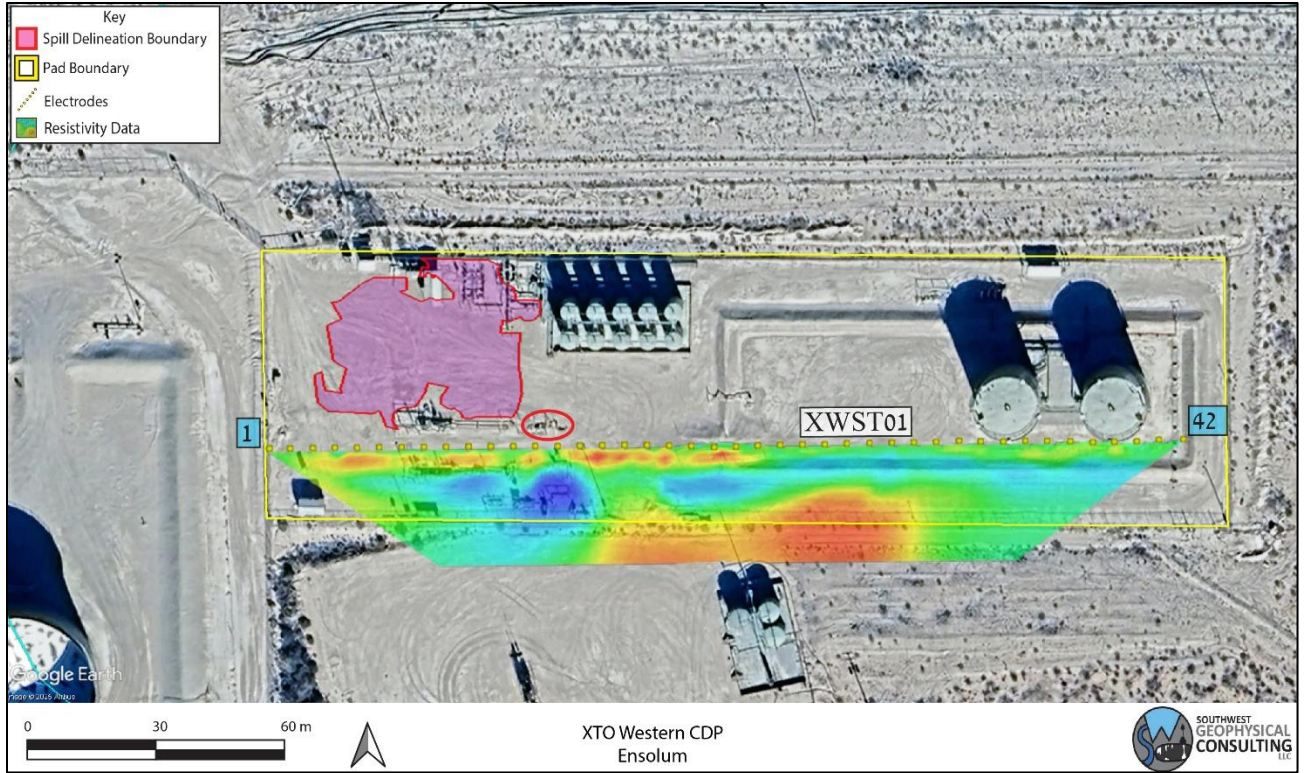


Figure 8: Data overlay. Colored trapezoids are 2D inverted resistivity lines. Red polygon highlights the sump and riser near the low-resistivity anomaly. Background image credit: Google Earth. Image date: December 31, 2023. Datum: WGS-84.

5.0 SUMMARY

- **The XWST survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.**
- **No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the survey area.**
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

6.0 DISCLOSURE STATEMENT

Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports (along with the associated data files) commissioned at the request of the land manager should be submitted to BLM-CFO at blm_nm_karst@blm.gov.

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

Environmental karst reports should be submitted to the appropriate project manager at the New Mexico Oil Conservation Division.

7.0 REFERENCES

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8.0 GLOSSARY OF TERMS

AGI	Advanced Geosciences Inc.
BLM-CFO	Bureau of Land Management - Carlsbad Field Office
brecciated	Fractured rock caused by faulting or collapse.
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
ERI	Electrical Resistivity Imaging
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
karst	A landscape containing solutional features such as caves, sinkholes, swallets, and springs.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Ohm-m	Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated Ω -m.
paleokarst	Previously formed karst features that have been filled in by erosion and/or deposition of minerals.
Pat	Permian Artesia Group
Pc	Permian Capitan Formation
Pcs	Permian Castile Formation

Pdl	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System
Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation
pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SPAR	Small Party Assisted Rescue
sUAS	Small, uncrewed aerial system
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed," meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)

9.0 ATTESTATION

David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist

Southwest Geophysical Consulting, LLC

5117 Fairfax Dr. NW

Albuquerque, NM 87114

dave@swgeophys.com

(505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ENS-020B-20250813 entitled, “Environmental Karst Study Report, XTO Western CDP, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section **2.3 Description of Survey**.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, September 30, 2025. Updated May 28, 2026.




David D. Decker
PhD, CPG-12123


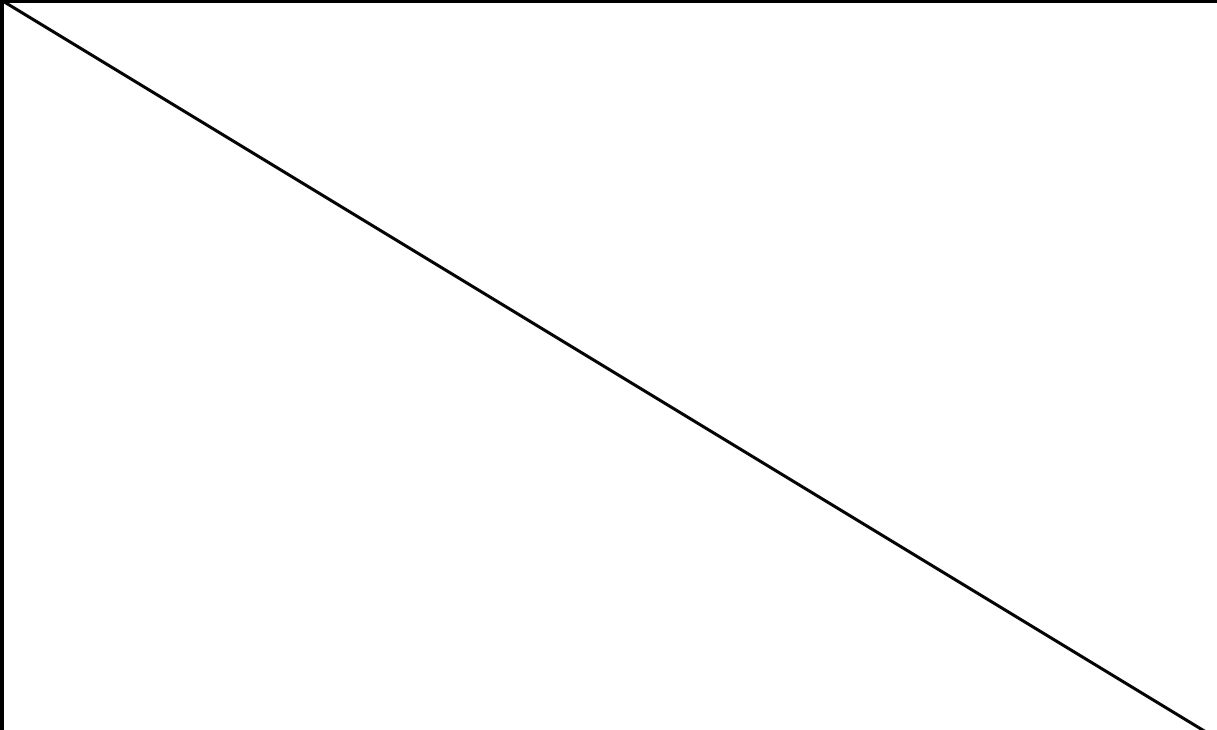




APPENDIX C

Lithologic Soil Sampling Logs

		Sample Name: PH01		Date: 7/22/2025					
		Site Name: Western CDP							
		Incident Number: nAPP2519241839							
		Job Number: 03C1558701							
LITHOLOGIC / SOIL SAMPLING LOG									
Coordinates: 32.0636622, -103.8803636			Logged By: JD		Method: Hand Auger				
			Hole Diameter: 4"		Total Depth: 6'				
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	
D	<168	2772	Y	PH01	0.5	0	CCHE	(0-1') CALICHE, light-brown to reddish, fine grained, poorly sorted, subrounded, unconsolidated, odor	
D	<168	1684	Y	PH01A	1	1	SP-SM	(1-7') SAND, light-brown to reddish, medium to fine grained, with silt, some gravel, poorly sorted, subrounded, odor	
D	<168	157.2	Y		2	2			
D	<168	666	Y		3	3			
D	<168	326	N	PH01B	4	4			
						5			
D	<168	317	N	PH01C	6	6		No odor at 6 feet bgs	
Total Depth @ 6 feet bgs									

		Sample Name: PH02		Date: 7/22/2025					
		Site Name: Western CDP							
		Incident Number: nAPP2519241839							
		Job Number: 03C1558701							
LITHOLOGIC / SOIL SAMPLING LOG									
Coordinates: 32.0636968, -103.8804771			Logged By: JD		Method: Hand Auger				
			Hole Diameter: 4"		Total Depth: 4'				
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	
D	<168	478	Y	PH02	0.5	0	CCHE	(0-1') CALICHE, light-brown to reddish, fine grained, poorly sorted, subrounded, unconsolidated, odor	
D	<168	628	Y		1	1	SP-SM	(1-4') SAND, light-brown to reddish, medium to fine grained, with silt, some gravel, poorly sorted, subrounded, odor	
D	<168	1805	Y	PH02A	2	2		Strong odor at 2 feet bgs	
D	<168	115	N	PH02B	3	3		Weak odor at 3 feet bgs	
D	<168	27.4	N	PH02C	4	4		Weak odor at 4 feet bgs	
Total Depth @ 4 feet bgs									
									



APPENDIX D

Photographic Log



Photographic Log


XTO Energy, Inc
Western CDP
nAPP2519241839

<p><u>Photograph</u> 1</p>	<p><u>Date</u> 7/11/2025</p>	<p>☉ 203°S (T) • 32.063768, -103.880755 ±3m ▲ 929m</p>  <p>Stained area</p> <p>Western CTB 11 Jul 2025, 10:49:34 AM</p>
<p><u>Description</u> Initial release staining on pad</p>		
<p><u>View</u> South</p>		
<p><u>Photograph</u> 2</p>	<p><u>Date</u> 7/11/2025</p>	<p>☉ 271°W (T) • 32.063725, -103.880272 ±3m ▲ 930m</p>  <p>Stained area</p> <p>Western CTB 11 Jul 2025, 10:51:37 AM</p>
<p><u>Description</u> Initial release staining on pad</p>		
<p><u>View</u> West</p>		



Photographic Log

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 Western CDP
 nAPP2519241839

<p><u>Photograph</u> 3</p>	<p><u>Date</u> 7/22/2025</p>	
<p><u>Description</u> Delineation activities; near PH02</p>		
<p><u>View</u> West</p>		
<p><u>Photograph</u> 4</p>	<p><u>Date</u> 10/2/2025</p>	
<p><u>Description</u> Delineation activities; near SS08</p>		
<p><u>View</u> South</p>		



Photographic Log

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<p><u>Photograph</u> 5</p>	<p><u>Date</u> 10/3/2025</p>	
<p><u>Description</u> Delineation activities; near SS01</p>		
<p><u>View</u> West</p>		
<p><u>Photograph</u> 6</p>	<p><u>Date</u> 7/24/2025</p>	
<p><u>Description</u> Excavation activities; near FS01</p>		
<p><u>View</u> Northeast</p>		



Photographic Log

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<p><u>Photograph</u> 7</p>	<p><u>Date</u> 7/31/2025</p>	
<p><u>Description</u> Excavation activities; FS01 advanced to 2 feet</p>		
<p><u>View</u> Northeast</p>		
<p><u>Photograph</u> 8</p>	<p><u>Date</u> 8/19/2025</p>	
<p><u>Description</u> Excavation activities; FS11 advanced to 4 feet</p>		
<p><u>View</u> Northeast</p>		



Photographic Log

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<p><u>Photograph</u> 9</p>	<p><u>Date</u> 8/19/2025</p>	
<p><u>Description</u> Excavation activities; FS12 advanced to 4 feet</p>		
<p><u>View</u> East</p>		
<p><u>Photograph</u> 10</p>	<p><u>Date</u> 8/19/2025</p>	
<p><u>Description</u> Excavation activities; FS15 advanced to 4 feet</p>		
<p><u>View</u> Southeast</p>		



Photographic Log



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<p><u>Photograph</u> 11</p>	<p><u>Date</u> 8/19/2026</p>	
<p><u>Description</u> Excavation activities; FS20 advanced to 4 feet</p>		
<p><u>View</u> North</p>		
<p><u>Photograph</u> 12</p>	<p><u>Date</u> 8/12/2025</p>	
<p><u>Description</u> Excavation activities; near FS26</p>		
<p><u>View</u> North</p>		



Photographic Log

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<p><u>Photograph</u> 13</p>	<p><u>Date</u> 8/19/2025</p>	<p>BRG: 30°N (T) POS: 32.06361, -103.88061 ±9ft ALT: 3061ft</p>  <p>JDB Western CDP 19 Aug 2025, 14:09:54 MDT</p>
<p><u>Description</u> Excavation activities; FS37 advanced to 4 feet</p>		
<p><u>View</u> North</p>		
<p><u>Photograph</u> 14</p>	<p><u>Date</u> 8/21/2025</p>	<p>BRG: 32°N (T) POS: 32.063627, -103.880398 ±6ft ALT: 3038ft</p>  <p>JDB Western CDP 21 Aug 2025, 14:47:12 MDT</p>
<p><u>Description</u> Excavation activities; FS43 advanced to 3 feet</p>		
<p><u>View</u> North</p>		



Photographic Log

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<p><u>Photograph</u> 15</p>	<p><u>Date</u> 8/12/2025</p>	<p>Western CDP 12 Aug 2025, 2:07:00 PM</p>
<p><u>Description</u> Excavation activities; Near FS44</p>		
<p><u>View</u> North</p>		
<p><u>Photograph</u> 16</p>	<p><u>Date</u> 8/21/2025</p>	<p>Western CDP 21 Aug 2025, 14:46:24 MDT</p>
<p><u>Description</u> Excavation activities; FS44 advanced to 3 feet</p>		
<p><u>View</u> North</p>		



Photographic Log

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<p><u>Photograph</u> 17</p>	<p><u>Date</u> 8/21/2025</p>	
<p><u>Description</u> Excavation activities; FS48 advanced to 4 feet</p>		
<p><u>View</u> North</p>		
<p><u>Photograph</u> 18</p>	<p><u>Date</u> 8/21/2025</p>	
<p><u>Description</u> Excavation activities; FS53 advanced to 3 feet</p>		
<p><u>View</u> Northwest</p>		



Photographic Log

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<p><u>Photograph</u> 19</p>	<p><u>Date</u> 8/12/2025</p>	
<p><u>Description</u> Excavation activities; Near FS55</p>		
<p><u>View</u> Northeast</p>		
<p><u>Photograph</u> 20</p>	<p><u>Date</u> 8/21/2025</p>	
<p><u>Description</u> Excavation activities; FS55 advanced to 3 feet</p>		
<p><u>View</u> South</p>		



Photographic Log

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 nAPP2519241839

<p><u>Photograph</u> 21</p>	<p><u>Date</u> 08/21/2025</p>	
<p><u>Description</u> Excavation activities; FS57 advanced to 4 feet</p>		
<p><u>View</u> South</p>		
<p><u>Photograph</u> 22</p>	<p><u>Date</u> 10/03/2025</p>	
<p><u>Description</u> Excavation activities; FS61</p>		
<p><u>View</u> Southeast</p>		



Photographic Log

XTO Energy, Inc
 Western CDP
 nAPP2519241839

<p><u>Photograph</u> 23</p>	<p><u>Date</u> 08/01/2025</p>	<p>Western CDP 01 Aug 2025, 12:38:50 PM</p>
<p><u>Description</u> Excavation activities; Near SW01</p>		
<p><u>View</u> Northeast</p>		
<p><u>Photograph</u> 24</p>	<p><u>Date</u> 08/13/2025</p>	<p>Western CDP 13 Aug 2025, 9:42:51 AM</p>
<p><u>Description</u> Excavation activities; Near SW03</p>		
<p><u>View</u> Southwest</p>		



Photographic Log

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 Western CDP
 nAPP2519241839

<p><u>Photograph</u> 25</p>	<p><u>Date</u> 08/21/2025</p>	<p>BRG: 271°W (T) POS: 32.063604, -103.880221 ±6ft ALT: 3041ft</p>  <p>Western CDP 21 Aug 2025, 12:14:16 MDT</p>
<p><u>Description</u> Excavation activities; SW03 advanced to 0-3 feet</p>		
<p><u>View</u> West</p>		
<p><u>Photograph</u> 26</p>	<p><u>Date</u> 08/13/2025</p>	<p>S SW</p> <p>150 180 210 240</p> <p>200°S (T) • 32.063724, -103.880337 ±5m ▲ 931m</p>  <p>Western CDP 13 Aug 2025, 9:42:49 AM</p>
<p><u>Description</u> Excavation activities; Near SW04</p>		
<p><u>View</u> South</p>		



Photographic Log

XTO Energy, Inc
 Western CDP
 nAPP2519241839

<p><u>Photograph</u> 27</p>	<p><u>Date</u> 10/15/2025</p>	
<p><u>Description</u> Excavation activities; Near SW15</p>		
<p><u>View</u> West</p>		
<p><u>Photograph</u> 28</p>	<p><u>Date</u> 1/2/2026</p>	
<p><u>Description</u> Backfilled excavation</p>		
<p><u>View</u> Northeast</p>		



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



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

July 24, 2025

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

RE: WESTERN CDP - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 07/23/25 8:53.

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,

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:	07/23/2025	Sampling Date:	07/22/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: PH 01 .5 (H254435-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.85	1.00	07/23/2025	ND	2.29	115	2.00	0.258	
Toluene*	96.4	1.00	07/23/2025	ND	2.20	110	2.00	0.363	
Ethylbenzene*	13.7	1.00	07/23/2025	ND	2.21	110	2.00	1.13	
Total Xylenes*	213	3.00	07/23/2025	ND	6.88	115	6.00	0.938	
Total BTEX	329	6.00	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 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	07/23/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	5490	50.0	07/24/2025	ND	199	99.6	200	0.476		
DRO >C10-C28*	12100	50.0	07/24/2025	ND	192	96.1	200	1.59		
EXT DRO >C28-C36	925	50.0	07/24/2025	ND						

Surrogate: 1-Chlorooctane 478 % 44.4-145

Surrogate: 1-Chlorooctadecane 195 % 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:	07/23/2025	Sampling Date:	07/22/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: PH 01A 2 (H254435-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2025	ND	2.29	115	2.00	0.258	
Toluene*	0.096	0.050	07/23/2025	ND	2.20	110	2.00	0.363	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.21	110	2.00	1.13	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.88	115	6.00	0.938	
Total BTEX	<0.300	0.300	07/23/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/23/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2025	ND	199	99.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	192	96.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 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:	07/23/2025	Sampling Date:	07/22/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: PH 01B 4' (H254435-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2025	ND	2.29	115	2.00	0.258	
Toluene*	<0.050	0.050	07/23/2025	ND	2.20	110	2.00	0.363	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.21	110	2.00	1.13	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.88	115	6.00	0.938	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	48.0	16.0	07/23/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2025	ND	199	99.6	200	0.476	
DRO >C10-C28*	131	10.0	07/23/2025	ND	192	96.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.7 % 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:	07/23/2025	Sampling Date:	07/22/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: PH 01C 6' (H254435-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2025	ND	2.29	115	2.00	0.258	
Toluene*	<0.050	0.050	07/23/2025	ND	2.20	110	2.00	0.363	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.21	110	2.00	1.13	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.88	115	6.00	0.938	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	256	16.0	07/23/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2025	ND	199	99.6	200	0.476	
DRO >C10-C28*	17.4	10.0	07/23/2025	ND	192	96.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.6 % 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:	07/23/2025	Sampling Date:	07/22/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: PH 02 .5 (H254435-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2025	ND	2.29	115	2.00	0.258	
Toluene*	<0.050	0.050	07/23/2025	ND	2.20	110	2.00	0.363	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.21	110	2.00	1.13	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.88	115	6.00	0.938	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	32.0	16.0	07/23/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.9	10.0	07/24/2025	ND	199	99.6	200	0.476	
DRO >C10-C28*	189	10.0	07/24/2025	ND	192	96.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 87.7 % 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:	07/23/2025	Sampling Date:	07/22/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: PH 02A 2 (H254435-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2025	ND	2.29	115	2.00	0.258	
Toluene*	1.16	0.050	07/23/2025	ND	2.20	110	2.00	0.363	
Ethylbenzene*	0.329	0.050	07/23/2025	ND	2.21	110	2.00	1.13	
Total Xylenes*	5.32	0.150	07/23/2025	ND	6.88	115	6.00	0.938	
Total BTEX	6.81	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	32.0	16.0	07/23/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	196	10.0	07/24/2025	ND	199	99.6	200	0.476	
DRO >C10-C28*	1060	10.0	07/24/2025	ND	192	96.1	200	1.59	
EXT DRO >C28-C36	95.7	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 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:	07/23/2025	Sampling Date:	07/22/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: PH 02B 3 (H254435-07)

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	07/23/2025	ND	2.29	115	2.00	0.258		
Toluene*	<0.050	0.050	07/23/2025	ND	2.20	110	2.00	0.363		
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.21	110	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.88	115	6.00	0.938		
Total BTEX	<0.300	0.300	07/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/23/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	199	99.6	200	0.476		
DRO >C10-C28*	53.0	10.0	07/24/2025	ND	192	96.1	200	1.59		
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND						

Surrogate: 1-Chlorooctane 88.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/23/2025	Sampling Date:	07/22/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: PH 02C 4 (H254435-08)

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	07/23/2025	ND	2.29	115	2.00	0.258		
Toluene*	<0.050	0.050	07/23/2025	ND	2.20	110	2.00	0.363		
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.21	110	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.88	115	6.00	0.938		
Total BTEX	<0.300	0.300	07/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	48.0	16.0	07/23/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	199	99.6	200	0.476		
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	192	96.1	200	1.59		
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND						

Surrogate: 1-Chlorooctane 92.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 3

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marientfeld Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #: Project Owner: XTO Energy
 Project #: 03C1558701 Project Name: Western CDP - Spill
 Project Location: 32.06367, -103.87966
 Sampler Name: Jesse Dorman

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

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					
H054435	Ph01	2.5	↓	↓								7/22/25	11:15	✓	✓	✓	
2	Ph01A	2	↓	↓									11:25	✓	✓	✓	
2	Ph01A	2	↓	↓										✓	✓	✓	
		SD															

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Relinquished By: *[Signature]* Date: 07/23/25
 Received By: *[Signature]* Date: 7:37
 Relinquished By: *[Signature]* Date: 7/23/25
 Received By: *[Signature]* Date: 8:53

Delivered By: (Circle One) *[Signature]* Observed Temp. °C: 24.4
 Corrected Temp. °C: 24.7
 Sampler - UPS - Bus - Other: *[Signature]*

Sample Condition: Cool Intact Yes No
 Checked By: *[Signature]*

Turnaround Time: Standard Rush
 #40103 #13
 Thermometer ID #13
 Correction Factor 0.5°C

REMARKS: Incident Number: nAPP2519241839
 Cost Center: 1083971001
 GFCA: 48605900

Verbal Result: Yes No Add'l Phone #: *[Signature]*
 All Results are emailed. Please provide Email address: jreich@ensolum.com
 T.Hillard@ensolum.com, T.Morrissey@ensolum.com, jldorman@ensolum.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: Ensolum, LLC

Project Manager: Tracy Hilliard

Address: 601 N Marientfield Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 575-937-3906 Fax #: Project Owner: XTO Energy

Project #: 03C1558701 Project Name: Western CDP - Spill

Project Location: 32.06367, -103.87966

Sampler Name: Jesse Dorman

FOR LAB USE ONLY

BILL TO ANALYSIS REQUEST

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

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
3	Pho1B	4'	61	1								7/2/25	11:55			
4	Pho1C	6'	11	1								12:00				

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Relinquished By: [Signature] Date: 07/23/25 Received By: Jesse Dorman Date: 7/3/25

Delivered By: (Circle One) Sample Condition: Intact Cool Intact Yes No

Sampler - UPS - Bus - Other: Corrected Temp. °C: 2.71

REMARKS: Incident Number: nAPP2519241839 Cost Center: 1083921001 GFCA: 48605000

Verbal Result: Yes No Add'l Phone #: JReich@ensolum.com
All Results are emailed. Please provide Email address: JReich@ensolum.com
BBelli@ensolum.com, TMorrissey@ensolum.com, Jdorman@ensolum.com
THilliard@ensolum.com, KThomason@ensolum.com

Turnaround Time: Standard Rush Bacteria (only) Sample Condition: Cool Intact Yes No

FORM-006 R.3.2 10/07/21 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:	
Project Manager: Tracy Hilliard		Company:	XTO Energy, Inc
Address: 601 N Marientfeld Street, Suite 400		Attn:	Colton Brown
City: Midland	State: TX Zip: 79701	Address: 3104 E Greene St	
Phone #: 575-937-3906	Fax #:	City:	Carlsbad
Project #: 03C1558701	Project Owner:	State:	NM Zip: 88220
Project Name: Western CDP - Spill		Phone #:	
Project Location: 32.06367, -103.87966		Fax #:	
Sampler Name: Jesse Dorman			

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HS2435	Ph02	5		6								7/22/25	12:50			
5	Ph02A	3		1								12:45				
7	Ph02B	3		1								12:45				
8	Ph02C	4		1								13:10				
		70														

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Relinquished By: <i>[Signature]</i>	Date: 07/12/25	Received By: <i>[Signature]</i>	Date: 07/12/25
Relinquished By: <i>[Signature]</i>	Date: 7:38	Received By: <i>[Signature]</i>	Date: 7:38
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>Standard</i>	Observed Temp.: 27.4 Corrected Temp.: 27.7	Sample Condition Cool Intact: Yes Cool Intact: No	CHECKED BY (Initials) <i>[Signature]</i>
Turnaround Time: <i>Standard</i>		Bacteria (only) Sample Condition Cool Intact: Yes Cool Intact: No	Corrected Temp.: 27.7
Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: jreich@ensolum.com EBellill@ensolum.com, TMorrissey@ensolum.com, Jdorman@ensolum.com THillard@ensolum.com, KThomason@ensolum.com REMARKS: Incident Number: nAPP2519241839 Cost Center: 1083971001 GFCM: 48605000			



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

August 04, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: WESTERN CDP - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 08/01/25 14:54.

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".

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:	08/01/2025	Sampling Date:	07/31/2025
Reported:	08/04/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 01 2' (H254713-01)

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	08/02/2025	ND	1.88	94.0	2.00	6.08	
Toluene*	<0.050	0.050	08/02/2025	ND	2.01	100	2.00	5.72	
Ethylbenzene*	<0.050	0.050	08/02/2025	ND	2.05	103	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/02/2025	ND	6.42	107	6.00	6.56	
Total BTEX	<0.300	0.300	08/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	08/04/2025	ND	480	120	400	3.39	

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	08/01/2025	ND	206	103	200	3.88	
DRO >C10-C28*	44.0	10.0	08/01/2025	ND	204	102	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	08/01/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.4 % 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:	08/01/2025	Sampling Date:	08/01/2025
Reported:	08/04/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 02 3' (H254713-02)

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	08/02/2025	ND	1.88	94.0	2.00	6.08	
Toluene*	<0.050	0.050	08/02/2025	ND	2.01	100	2.00	5.72	
Ethylbenzene*	<0.050	0.050	08/02/2025	ND	2.05	103	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/02/2025	ND	6.42	107	6.00	6.56	
Total BTEX	<0.300	0.300	08/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	08/04/2025	ND	480	120	400	3.39	

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	08/01/2025	ND	206	103	200	3.88	
DRO >C10-C28*	171	10.0	08/01/2025	ND	204	102	200	3.30	
EXT DRO >C28-C36	15.6	10.0	08/01/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 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:	08/01/2025	Sampling Date:	08/01/2025
Reported:	08/04/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 03 2' (H254713-03)

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	08/02/2025	ND	1.88	94.0	2.00	6.08	
Toluene*	<0.050	0.050	08/02/2025	ND	2.01	100	2.00	5.72	
Ethylbenzene*	<0.050	0.050	08/02/2025	ND	2.05	103	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/02/2025	ND	6.42	107	6.00	6.56	
Total BTEX	<0.300	0.300	08/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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	08/04/2025	ND	480	120	400	3.39	

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	08/01/2025	ND	206	103	200	3.88	
DRO >C10-C28*	343	10.0	08/01/2025	ND	204	102	200	3.30	
EXT DRO >C28-C36	44.4	10.0	08/01/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 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:	08/01/2025	Sampling Date:	08/01/2025
Reported:	08/04/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 04 3' (H254713-04)

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	08/02/2025	ND	1.88	94.0	2.00	6.08		
Toluene*	<0.050	0.050	08/02/2025	ND	2.01	100	2.00	5.72		
Ethylbenzene*	<0.050	0.050	08/02/2025	ND	2.05	103	2.00	5.77		
Total Xylenes*	<0.150	0.150	08/02/2025	ND	6.42	107	6.00	6.56		
Total BTEX	<0.300	0.300	08/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	48.0	16.0	08/04/2025	ND	480	120	400	3.39		

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	08/01/2025	ND	206	103	200	3.88		
DRO >C10-C28*	93.8	10.0	08/01/2025	ND	204	102	200	3.30		
EXT DRO >C28-C36	11.6	10.0	08/01/2025	ND						

Surrogate: 1-Chlorooctane 99.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 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:	08/01/2025	Sampling Date:	08/01/2025
Reported:	08/04/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 05 3' (H254713-05)

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	08/02/2025	ND	1.88	94.0	2.00	6.08	
Toluene*	<0.050	0.050	08/02/2025	ND	2.01	100	2.00	5.72	
Ethylbenzene*	<0.050	0.050	08/02/2025	ND	2.05	103	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/02/2025	ND	6.42	107	6.00	6.56	
Total BTEX	<0.300	0.300	08/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	48.0	16.0	08/04/2025	ND	480	120	400	3.39	

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	08/01/2025	ND	206	103	200	3.88	
DRO >C10-C28*	73.2	10.0	08/01/2025	ND	204	102	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	08/01/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 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:	08/01/2025	Sampling Date:	08/01/2025
Reported:	08/04/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 06 2' (H254713-06)

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	08/02/2025	ND	1.88	94.0	2.00	6.08	
Toluene*	<0.050	0.050	08/02/2025	ND	2.01	100	2.00	5.72	
Ethylbenzene*	<0.050	0.050	08/02/2025	ND	2.05	103	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/02/2025	ND	6.42	107	6.00	6.56	
Total BTEX	<0.300	0.300	08/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	08/04/2025	ND	480	120	400	3.39	

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	08/02/2025	ND	206	103	200	3.88	
DRO >C10-C28*	<10.0	10.0	08/02/2025	ND	204	102	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	08/02/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 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:	08/01/2025	Sampling Date:	08/01/2025
Reported:	08/04/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 07 2' (H254713-07)

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	08/02/2025	ND	1.88	94.0	2.00	6.08	
Toluene*	<0.050	0.050	08/02/2025	ND	2.01	100	2.00	5.72	
Ethylbenzene*	<0.050	0.050	08/02/2025	ND	2.05	103	2.00	5.77	
Total Xylenes*	0.204	0.150	08/02/2025	ND	6.42	107	6.00	6.56	
Total BTEX	<0.300	0.300	08/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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	48.0	16.0	08/04/2025	ND	480	120	400	3.39	

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	08/02/2025	ND	206	103	200	3.88	
DRO >C10-C28*	77.4	10.0	08/02/2025	ND	204	102	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	08/02/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.9 % 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:	08/01/2025	Sampling Date:	08/01/2025
Reported:	08/04/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 08 2' (H254713-08)

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	08/02/2025	ND	1.88	94.0	2.00	6.08	
Toluene*	<0.050	0.050	08/02/2025	ND	2.01	100	2.00	5.72	
Ethylbenzene*	<0.050	0.050	08/02/2025	ND	2.05	103	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/02/2025	ND	6.42	107	6.00	6.56	
Total BTEX	<0.300	0.300	08/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	32.0	16.0	08/04/2025	ND	480	120	400	3.39	

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	08/02/2025	ND	206	103	200	3.88	
DRO >C10-C28*	<10.0	10.0	08/02/2025	ND	204	102	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	08/02/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 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:	08/01/2025	Sampling Date:	08/01/2025
Reported:	08/04/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW 01 0-3' (H254713-09)

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	08/02/2025	ND	1.88	94.0	2.00	6.08	
Toluene*	<0.050	0.050	08/02/2025	ND	2.01	100	2.00	5.72	
Ethylbenzene*	<0.050	0.050	08/02/2025	ND	2.05	103	2.00	5.77	
Total Xylenes*	0.312	0.150	08/02/2025	ND	6.42	107	6.00	6.56	
Total BTEX	0.312	0.300	08/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	08/04/2025	ND	480	120	400	3.39	

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	08/02/2025	ND	206	103	200	3.88	
DRO >C10-C28*	250	10.0	08/02/2025	ND	204	102	200	3.30	
EXT DRO >C28-C36	34.6	10.0	08/02/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 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:	08/01/2025	Sampling Date:	08/01/2025
Reported:	08/04/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW 02 0-3' (H254713-10)

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	08/02/2025	ND	1.88	94.0	2.00	6.08	
Toluene*	0.113	0.050	08/02/2025	ND	2.01	100	2.00	5.72	
Ethylbenzene*	0.054	0.050	08/02/2025	ND	2.05	103	2.00	5.77	
Total Xylenes*	0.954	0.150	08/02/2025	ND	6.42	107	6.00	6.56	
Total BTEX	1.12	0.300	08/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 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	08/04/2025	ND	480	120	400	3.39	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	22.4	10.0	08/04/2025	ND	225	113	200	29.4	
DRO >C10-C28*	296	10.0	08/04/2025	ND	210	105	200	13.2	
EXT DRO >C28-C36	42.2	10.0	08/04/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
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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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

101A

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marientfield Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #: [blank]
 Project #: 03C1558701 Project Owner: XTO Energy
 Project Name: Western CDP - Spill
 Project Location: 32.06367, -103.87966
 Sampler Name: Jesse Dorman & N: [blank]

BILL TO

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

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1	F502	2.3	CL	1							8/18/05	9:20			
2	F502	2.3	CL	1							8/18/05	9:06			
3	F503	2.3	CL	1							11:00	11:10			
4	F504	2.3	CL	1							11:18	10:38			
5	F505	2.3	CL	1							10:41	10:41			
6	F506	2.3	CL	1							10:41	10:41			
7	F507	2.3	CL	1							11:35	11:35			
8	F508	2.3	CL	1							11:40	11:40			
9	SW01	0-3'	CL	1							11:40	11:40			
10	SW02	0-3'	CL	1							11:40	11:40			

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Relinquished By: [Signature] Date: 8/15/05
 Received By: [Signature] Date: 8-1-25
 Delivered By: (Circle One) Observed Temp. °C: 08.0
 Corrected Temp. °C: 11.0
 Sample - UPS - Bus - Other: [blank]
 Turnaround Time: Standard [checked] Rush []
 Bacteria (only) Sample Condition: Cool Intact [] Observed Temp. °C: []
 Corrected Temp. °C: []
 Verbal Result: Yes [] No [] Add'l Phone #: []
 All Results are emailed. Please provide Email address: JReich@ensolum.com
 BBell@ensolum.com, TMorrissey@ensolum.com, Jdorman@ensolum.com
 THillard@ensolum.com, KThomason@ensolum.com
 REMARKS: Incident Number: nAPP2519241839
 Cost Center: 1083971001
 GFCM: 48605000



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

August 13, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WESTERN CDP

Enclosed are the results of analyses for samples received by the laboratory on 08/12/25 12:40.

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".

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:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 09 2 (H254954-01)

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	08/12/2025	ND	1.73	86.7	2.00	4.96	
Toluene*	<0.050	0.050	08/12/2025	ND	1.89	94.4	2.00	4.06	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	2.01	100	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	6.40	107	6.00	3.37	
Total BTEX	<0.300	0.300	08/12/2025	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	80.0	16.0	08/13/2025	ND	480	120	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	08/12/2025	ND	206	103	200	0.244	
DRO >C10-C28*	23.8	10.0	08/12/2025	ND	179	89.7	200	0.253	
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND					

Surrogate: 1-Chlorooctane 77.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.9 % 40.6-153

Cardinal Laboratories

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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:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 10 2 (H254954-02)

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	08/12/2025	ND	1.73	86.7	2.00	4.96		
Toluene*	<0.050	0.050	08/12/2025	ND	1.89	94.4	2.00	4.06		
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	2.01	100	2.00	3.47		
Total Xylenes*	<0.150	0.150	08/12/2025	ND	6.40	107	6.00	3.37		
Total BTEX	<0.300	0.300	08/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/13/2025	ND	480	120	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	08/12/2025	ND	206	103	200	0.244		
DRO >C10-C28*	299	10.0	08/12/2025	ND	179	89.7	200	0.253		
EXT DRO >C28-C36	39.3	10.0	08/12/2025	ND						

Surrogate: 1-Chlorooctane 73.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.2 % 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
 TRACY HILLARD
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 11 2 (H254954-03)

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	08/12/2025	ND	1.73	86.7	2.00	4.96	
Toluene*	<0.050	0.050	08/12/2025	ND	1.89	94.4	2.00	4.06	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	2.01	100	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	6.40	107	6.00	3.37	
Total BTEX	<0.300	0.300	08/12/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	08/13/2025	ND	480	120	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	08/12/2025	ND	206	103	200	0.244	
DRO >C10-C28*	585	10.0	08/12/2025	ND	179	89.7	200	0.253	
EXT DRO >C28-C36	81.4	10.0	08/12/2025	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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Analytical Results For:

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

Received:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 12 2 (H254954-04)

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	08/12/2025	ND	1.73	86.7	2.00	4.96	
Toluene*	<0.050	0.050	08/12/2025	ND	1.89	94.4	2.00	4.06	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	2.01	100	2.00	3.47	GC-NC
Total Xylenes*	0.201	0.150	08/12/2025	ND	6.40	107	6.00	3.37	GC-NC1
Total BTEX	<0.300	0.300	08/12/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	08/13/2025	ND	480	120	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*	28.1	10.0	08/12/2025	ND	206	103	200	0.244	
DRO >C10-C28*	1350	10.0	08/12/2025	ND	179	89.7	200	0.253	
EXT DRO >C28-C36	174	10.0	08/12/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.6 % 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
 TRACY HILLARD
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 13 2 (H254954-05)

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	08/12/2025	ND	1.73	86.7	2.00	4.96	
Toluene*	<0.050	0.050	08/12/2025	ND	1.89	94.4	2.00	4.06	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	2.01	100	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	6.40	107	6.00	3.37	
Total BTEX	<0.300	0.300	08/12/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	80.0	16.0	08/13/2025	ND	480	120	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	08/12/2025	ND	206	103	200	0.244	
DRO >C10-C28*	70.7	10.0	08/12/2025	ND	179	89.7	200	0.253	
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.1 % 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
 TRACY HILLARD
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 14 2 (H254954-06)

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	08/12/2025	ND	1.73	86.7	2.00	4.96	
Toluene*	<0.050	0.050	08/12/2025	ND	1.89	94.4	2.00	4.06	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	2.01	100	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	6.40	107	6.00	3.37	
Total BTEX	<0.300	0.300	08/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/13/2025	ND	480	120	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	08/12/2025	ND	206	103	200	0.244	
DRO >C10-C28*	138	10.0	08/12/2025	ND	179	89.7	200	0.253	
EXT DRO >C28-C36	18.3	10.0	08/12/2025	ND					

Surrogate: 1-Chlorooctane 78.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.4 % 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
 TRACY HILLARD
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 15 2 (H254954-07)

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	08/12/2025	ND	1.73	86.7	2.00	4.96		
Toluene*	<0.050	0.050	08/12/2025	ND	1.89	94.4	2.00	4.06		
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	2.01	100	2.00	3.47	GC-NC	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	6.40	107	6.00	3.37		
Total BTEX	<0.300	0.300	08/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	08/13/2025	ND	480	120	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*	21.3	10.0	08/12/2025	ND	206	103	200	0.244		
DRO >C10-C28*	1540	10.0	08/12/2025	ND	179	89.7	200	0.253		
EXT DRO >C28-C36	188	10.0	08/12/2025	ND						

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

Received:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 16 2 (H254954-08)

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	08/12/2025	ND	1.73	86.7	2.00	4.96	
Toluene*	<0.050	0.050	08/12/2025	ND	1.89	94.4	2.00	4.06	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	2.01	100	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	6.40	107	6.00	3.37	
Total BTEX	<0.300	0.300	08/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/13/2025	ND	480	120	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	08/12/2025	ND	206	103	200	0.244	
DRO >C10-C28*	569	10.0	08/12/2025	ND	179	89.7	200	0.253	
EXT DRO >C28-C36	74.4	10.0	08/12/2025	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: Ensolum, LLC

BILL TO

P.O. #: _____

Company: XTO Energy Inc

Address: 3122 National Parks Hwy

City: Carlsbad State: NM Zip: 88220

Attn: Colton Brown

Address: 3104 E Green St

City: Carlsbad State: NM Zip: 88220

Phone #: _____ Fax #: _____

Project Manager: Tracy Hillard

Project #: 03C1558701 Project Owner: XTO

Project Name: Western CDP

Project Location: (32.06367, -105.87966)

Sampler Name: CHRIS WELCH

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
HR24954	FS09	2	C	1	✓					8/11/25	1053	✓	✓	✓	
	FS10	2	C	1	✓					8/11/25	1057	✓	✓	✓	
	FS11	2	C	1	✓					8/11/25	1059	✓	✓	✓	
	FS12	2	C	1	✓					8/11/25	1101	✓	✓	✓	
	FS13	2	C	1	✓					8/11/25	1112	✓	✓	✓	
	FS14	2	C	1	✓					8/11/25	1109	✓	✓	✓	
	FS15	2	C	1	✓					8/11/25	1105	✓	✓	✓	
	FS16	2	C	1	✓					8/11/25	1103	✓	✓	✓	

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Relinquished By: _____

Relinquished Date: 8-12-25

Received By: _____

Received Date: 8-12-25

Time: 12:40

Delivered By: (Circle One) _____

Observed Temp. °C: 29.3

Corrected Temp. °C: 29.6

Sample Condition: Cool Intact Yes No

Checked By: _____

Sampler - UPS - Bus - Other: _____

Turnaround Time: 24 Hr

Thermometer ID: #140

Correction Factor: +0.3°C

Standard Rush

Bacteria (only) Sample Condition: Cool Intact Yes No 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

August 13, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WESTERN CDP

Enclosed are the results of analyses for samples received by the laboratory on 08/12/25 12:40.

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".

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:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 17 2 (H254955-01)

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	08/12/2025	ND	1.73	86.7	2.00	4.96	
Toluene*	<0.050	0.050	08/12/2025	ND	1.89	94.4	2.00	4.06	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	2.01	100	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	6.40	107	6.00	3.37	
Total BTEX	<0.300	0.300	08/12/2025	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	08/13/2025	ND	480	120	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	08/12/2025	ND	206	103	200	0.244	
DRO >C10-C28*	442	10.0	08/12/2025	ND	179	89.7	200	0.253	
EXT DRO >C28-C36	66.6	10.0	08/12/2025	ND					

Surrogate: 1-Chlorooctane 74.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.0 % 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
 TRACY HILLARD
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 18 2 (H254955-02)

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	08/12/2025	ND	1.73	86.7	2.00	4.96		
Toluene*	<0.050	0.050	08/12/2025	ND	1.89	94.4	2.00	4.06		
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	2.01	100	2.00	3.47		
Total Xylenes*	<0.150	0.150	08/12/2025	ND	6.40	107	6.00	3.37		
Total BTEX	<0.300	0.300	08/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	64.0	16.0	08/13/2025	ND	480	120	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	08/12/2025	ND	206	103	200	0.244		
DRO >C10-C28*	21.3	10.0	08/12/2025	ND	179	89.7	200	0.253		
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND						

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.8 % 40.6-153

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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:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 19 2 (H254955-03)

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	08/12/2025	ND	1.73	86.7	2.00	4.96		
Toluene*	<0.050	0.050	08/12/2025	ND	1.89	94.4	2.00	4.06		
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	2.01	100	2.00	3.47		
Total Xylenes*	<0.150	0.150	08/12/2025	ND	6.40	107	6.00	3.37		
Total BTEX	<0.300	0.300	08/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	08/13/2025	ND	480	120	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	08/12/2025	ND	206	103	200	0.244		
DRO >C10-C28*	<10.0	10.0	08/12/2025	ND	179	89.7	200	0.253		
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND						

Surrogate: 1-Chlorooctane 86.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.0 % 40.6-153

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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:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 20 2 (H254955-04)

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	08/12/2025	ND	1.73	86.7	2.00	4.96	
Toluene*	<0.050	0.050	08/12/2025	ND	1.89	94.4	2.00	4.06	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	2.01	100	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	6.40	107	6.00	3.37	
Total BTEX	<0.300	0.300	08/12/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/13/2025	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	08/12/2025	ND	206	103	200	0.244	
DRO >C10-C28*	1150	10.0	08/12/2025	ND	179	89.7	200	0.253	
EXT DRO >C28-C36	148	10.0	08/12/2025	ND					

Surrogate: 1-Chlorooctane 75.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.0 % 40.6-153

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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:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 21 2 (H254955-05)

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	08/13/2025	ND	1.73	86.7	2.00	4.96		
Toluene*	<0.050	0.050	08/13/2025	ND	1.89	94.4	2.00	4.06		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.01	100	2.00	3.47		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.40	107	6.00	3.37		
Total BTEX	<0.300	0.300	08/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/13/2025	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	08/12/2025	ND	206	103	200	0.244		
DRO >C10-C28*	501	10.0	08/12/2025	ND	179	89.7	200	0.253		
EXT DRO >C28-C36	69.3	10.0	08/12/2025	ND						

Surrogate: 1-Chlorooctane 78.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.0 % 40.6-153

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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:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 22 2 (H254955-06)

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	08/13/2025	ND	1.73	86.7	2.00	4.96	
Toluene*	<0.050	0.050	08/13/2025	ND	1.89	94.4	2.00	4.06	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.01	100	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.40	107	6.00	3.37	
Total BTEX	<0.300	0.300	08/13/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/13/2025	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	08/12/2025	ND	206	103	200	0.244	
DRO >C10-C28*	80.1	10.0	08/12/2025	ND	179	89.7	200	0.253	
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND					

Surrogate: 1-Chlorooctane 79.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.7 % 40.6-153

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Analytical Results For:

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

Received:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 23 2 (H254955-07)

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	08/13/2025	ND	1.73	86.7	2.00	4.96		
Toluene*	<0.050	0.050	08/13/2025	ND	1.89	94.4	2.00	4.06		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.01	100	2.00	3.47		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.40	107	6.00	3.37		
Total BTEX	<0.300	0.300	08/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/13/2025	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	08/12/2025	ND	206	103	200	0.244		
DRO >C10-C28*	81.4	10.0	08/12/2025	ND	179	89.7	200	0.253		
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND						

Surrogate: 1-Chlorooctane 65.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.0 % 40.6-153

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Analytical Results For:

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

Received:	08/12/2025	Sampling Date:	08/11/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS 24 2 (H254955-08)

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	08/13/2025	ND	1.73	86.7	2.00	4.96		
Toluene*	<0.050	0.050	08/13/2025	ND	1.89	94.4	2.00	4.06		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.01	100	2.00	3.47		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.40	107	6.00	3.37		
Total BTEX	<0.300	0.300	08/13/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/13/2025	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	08/12/2025	ND	206	103	200	0.244		
DRO >C10-C28*	80.6	10.0	08/12/2025	ND	179	89.7	200	0.253		
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND						

Surrogate: 1-Chlorooctane 75.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.4 % 40.6-153

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 575.757.3906 Fax #:
 Project #: 03C1558701 Project Owner: XTO
 Project Name: WESTERN CDP
 Project Location: (32.06367, -105.87966)
 Sampler Name: CHRIS MELHART
 P.O. #:
 Company: XTO Energy Inc
 Attn: Colton Brown
 Address: 3104 E Green St
 City: Carlsbad State: NM Zip: 88220
 Phone #:
 Fax #:
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H257955	FS17	2	C	1								8/11/25	1209	✓	✓	✓
	FS18	2	C	1	✓							8/11/25	1212	✓	✓	✓
	FS19	2	C	1	✓							8/11/25	1215	✓	✓	✓
	FS20	2	C	1	✓							8/11/25	1217	✓	✓	✓
	FS21	2	C	1	✓							8/11/25	1219	✓	✓	✓
	FS22	2	C	1	✓							8/11/25	1222	✓	✓	✓
	FS23	2	C	1	✓							8/11/25	1225	✓	✓	✓
	FS24	2	C	1	✓							8/11/25	1228	✓	✓	✓

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Relinquished By: *OSW*
 Date: 8-12-25
 Time: 2:10
 Received By: *Johanna Casalun...*
 Date:
 Time:
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: *thillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com*
 REMARKS: Incident: AAPP 2519241859
 Cost Center: 1083971001
 A/FCM: 48205000
 Turnaround Time: Standard Rush
 24 Hr
 Thermometer ID: #140
 Correction Factor: +0.3°C
 Bacteria (only) Sample Condition Cool Intact Yes No Corrected Temp. °C

Delivered By: (Circle One) Observed Temp. °C: 23.3
 Sampler - UPS - Bus - Other: Corrected Temp. °C: 24.0
 Sample Condition: Cool Intact Yes No Checked By: *OSW*
 FORM-006 R.3.2 10/07/21
 † Cardinal cannot accept verbal changes. Please email changes to *celejy.keene@cardinallabsnm.com*



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

August 14, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: WESTERN CDP - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 08/13/25 12:22.

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".

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:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW03 0-2' (H255011-01)

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	08/13/2025	ND	1.72	86.0	2.00	4.45		
Toluene*	0.078	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81		
Ethylbenzene*	0.123	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33	GC-NC1	
Total Xylenes*	1.59	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95		
Total BTEX	1.79	0.300	08/13/2025	ND					GC-NC1	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/14/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	56.6	10.0	08/13/2025	ND	220	110	200	0.523			
DRO >C10-C28*	3890	10.0	08/13/2025	ND	202	101	200	1.08			
EXT DRO >C28-C36	667	10.0	08/13/2025	ND							

Surrogate: 1-Chlorooctane 99.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 178 % 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:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW04 0-2' (H255011-02)

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	08/13/2025	ND	1.72	86.0	2.00	4.45		
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95		
Total BTEX	<0.300	0.300	08/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523		
DRO >C10-C28*	2050	10.0	08/13/2025	ND	202	101	200	1.08		
EXT DRO >C28-C36	355	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 142 % 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:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW05 0-2' (H255011-03)

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	08/13/2025	ND	1.72	86.0	2.00	4.45		
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95		
Total BTEX	<0.300	0.300	08/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523		
DRO >C10-C28*	149	10.0	08/13/2025	ND	202	101	200	1.08		
EXT DRO >C28-C36	25.5	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 93.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.6 % 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:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW06 0-2' (H255011-04)

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	08/13/2025	ND	1.72	86.0	2.00	4.45		
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523		
DRO >C10-C28*	701	10.0	08/13/2025	ND	202	101	200	1.08		
EXT DRO >C28-C36	121	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 91.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC	P.O. #:
Project Manager: Tracy Hillard	Company: XTO Energy, Inc
Address: 601 N Marientfield Street, Suite 400	Attn: Colton Brown
City: Midland	Address: 3104 E Greene St
Phone #: 575-937-3906	City: Carlsbad
Project #: 03C1558701	State: NM Zip: 88220
Project Name: Western CDP - Spill	Phone #:
Project Location: 32.06367, -103.87966	Fax #:
Sampler Name: Jesse Dorman	

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HASS011	SW-03	0-2'	C	4							8/15/25	9:33				
	SW-04		C	4							9:10	9:12				
	SW-05		C	4							9:12	9:16				
	SW-06		C	4												
	SD															

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Relinquished By: _____

Received By: Steed Vigoreux

Date: 8-13-25 Time: 1:22

Received By: _____

Date: _____ Time: _____

Delivered By: (Circle One) UPS Bus Other: _____

Observed Temp. °C: 4.1

Corrected Temp. °C: 4.4

Sample Condition: Cool Intact Yes No

Checked By: SR

Turnaround Time: 140 to 3:15

Thermometer ID #113

Correction Factor: 0.52

Bacteria (only) Sample Condition: Cool Intact Yes No

Corrected Temp. °C: _____

FORM-006 R 3.2 1/01/07/21

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



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

August 14, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: WESTERN CDP - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 08/13/25 12:22.

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".

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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS25 2' (H255012-01)

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	08/13/2025	ND	1.72	86.0	2.00	4.45	
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523	
DRO >C10-C28*	26.4	10.0	08/13/2025	ND	202	101	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.5 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS26 2' (H255012-02)

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	08/13/2025	ND	1.72	86.0	2.00	4.45		
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95		
Total BTEX	<0.300	0.300	08/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523		
DRO >C10-C28*	1490	10.0	08/13/2025	ND	202	101	200	1.08		
EXT DRO >C28-C36	253	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 91.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 119 % 40.6-153

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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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS27 2' (H255012-03)

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	08/13/2025	ND	1.72	86.0	2.00	4.45		
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523		
DRO >C10-C28*	532	10.0	08/13/2025	ND	202	101	200	1.08		
EXT DRO >C28-C36	101	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Analytical Results For:

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

Received:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS28 2' (H255012-04)

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	08/13/2025	ND	1.72	86.0	2.00	4.45		
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523		
DRO >C10-C28*	254	10.0	08/13/2025	ND	202	101	200	1.08		
EXT DRO >C28-C36	38.3	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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Analytical Results For:

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

Received:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS29 2' (H255012-05)

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	08/13/2025	ND	1.72	86.0	2.00	4.45	
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523	
DRO >C10-C28*	105	10.0	08/13/2025	ND	202	101	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS30 2' (H255012-06)

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	08/13/2025	ND	1.72	86.0	2.00	4.45	
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95	
Total BTEX	<0.300	0.300	08/13/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523	
DRO >C10-C28*	51.5	10.0	08/13/2025	ND	202	101	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.3 % 40.6-153

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Analytical Results For:

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

Received:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS31 2' (H255012-07)

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	08/13/2025	ND	1.72	86.0	2.00	4.45	
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95	
Total BTEX	<0.300	0.300	08/13/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523	
DRO >C10-C28*	250	10.0	08/13/2025	ND	202	101	200	1.08	
EXT DRO >C28-C36	38.5	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 75.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.2 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS32 2' (H255012-08)

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	08/13/2025	ND	1.72	86.0	2.00	4.45	
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523	
DRO >C10-C28*	493	10.0	08/13/2025	ND	202	101	200	1.08	
EXT DRO >C28-C36	96.8	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 73.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.4 % 40.6-153

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Analytical Results For:

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

Received:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS33 2' (H255012-09)

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	08/13/2025	ND	1.72	86.0	2.00	4.45		
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95		
Total BTEX	<0.300	0.300	08/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523		
DRO >C10-C28*	18.0	10.0	08/13/2025	ND	202	101	200	1.08		
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 64.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 62.2 % 40.6-153

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Analytical Results For:

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

Received:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS34 2' (H255012-10)

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	08/13/2025	ND	1.72	86.0	2.00	4.45	
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523	
DRO >C10-C28*	173	10.0	08/13/2025	ND	202	101	200	1.08	
EXT DRO >C28-C36	21.2	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Analytical Results For:

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

Received:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS35 2' (H255012-11)

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	08/13/2025	ND	1.72	86.0	2.00	4.45	
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523	
DRO >C10-C28*	255	10.0	08/13/2025	ND	202	101	200	1.08	
EXT DRO >C28-C36	36.7	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS36 2' (H255012-12)

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	08/13/2025	ND	1.72	86.0	2.00	4.45	
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523	
DRO >C10-C28*	240	10.0	08/13/2025	ND	202	101	200	1.08	
EXT DRO >C28-C36	32.2	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.8 % 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: 08/13/2025
 Reported: 08/14/2025
 Project Name: WESTERN CDP - SPILL
 Project Number: 03C1558701
 Project Location: XTO 32.06367, -103.87966

Sampling Date: 08/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS37 2' (H255012-13)

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	08/13/2025	ND	1.72	86.0	2.00	4.45		
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523		
DRO >C10-C28*	1290	10.0	08/13/2025	ND	202	101	200	1.08		
EXT DRO >C28-C36	218	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 99.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 131 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS38 2' (H255012-14)

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	08/13/2025	ND	1.72	86.0	2.00	4.45	
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523	
DRO >C10-C28*	442	10.0	08/13/2025	ND	202	101	200	1.08	
EXT DRO >C28-C36	78.5	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS39 2' (H255012-15)

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	08/13/2025	ND	1.72	86.0	2.00	4.45		
Toluene*	<0.050	0.050	08/13/2025	ND	1.75	87.7	2.00	4.81		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.79	89.5	2.00	4.33		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.46	91.0	6.00	3.95		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/14/2025	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	08/13/2025	ND	220	110	200	0.523		
DRO >C10-C28*	201	10.0	08/13/2025	ND	202	101	200	1.08		
EXT DRO >C28-C36	30.2	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Analytical Results For:

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

Received:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS40 2' (H255012-16)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/14/2025	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	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	861	10.0	08/13/2025	ND	174	86.8	200	1.63	QM-07
EXT DRO >C28-C36	135	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 73.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.1 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS41 2' (H255012-17)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/14/2025	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	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	893	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	130	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.5 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS42 2' (H255012-18)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2025	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	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	397	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	49.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.8 % 40.6-153

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Analytical Results For:

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

Received:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS43 2' (H255012-19)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/14/2025	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	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	1200	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	174	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.6 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS44 2' (H255012-20)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2025	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*	10.1	10.0	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	1650	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	221	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.4 % 40.6-153

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Analytical Results For:

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

Received:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS45 2' (H255012-21)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/14/2025	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	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	1080	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	147	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.8 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS46 2' (H255012-22)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2025	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	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	796	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	119	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.1 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS47 2' (H255012-23)

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	08/13/2025	ND	1.79	89.3	2.00	5.13		
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/14/2025	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	08/13/2025	ND	200	100	200	0.980		
DRO >C10-C28*	951	10.0	08/13/2025	ND	174	86.8	200	1.63		
EXT DRO >C28-C36	144	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 90.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.2 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS48 2' (H255012-24)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/14/2025	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	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	2090	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	303	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 120 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS49 2' (H255012-25)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2025	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	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	299	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	44.5	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.7 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS50 2' (H255012-26)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2025	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	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	476	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	69.3	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.0 % 40.6-153

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Analytical Results For:

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

Received:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS51 2' (H255012-27)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2025	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	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	606	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	86.9	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.9 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS52 2' (H255012-28)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	854	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	122	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 72.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.1 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS53 2' (H255012-29)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	0.997	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	GC-NC1
Total BTEX	0.997	0.300	08/13/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	38.4	10.0	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	1720	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	228	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS54 2' (H255012-30)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	0.059	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	0.102	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	GC-NC1
Total Xylenes*	3.02	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	GC-NC1
Total BTEX	3.18	0.300	08/13/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	142	10.0	08/13/2025	ND	200	100	200	0.980		
DRO >C10-C28*	4170	10.0	08/13/2025	ND	174	86.8	200	1.63		
EXT DRO >C28-C36	517	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 154 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS55 2' (H255012-31)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	1260	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	186	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Analytical Results For:

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

Received:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS56 2' (H255012-32)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	200	100	200	0.980	
DRO >C10-C28*	752	10.0	08/13/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	117	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.5 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS57 2' (H255012-33)

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	08/13/2025	ND	1.79	89.3	2.00	5.13		
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	200	100	200	0.980		
DRO >C10-C28*	1090	10.0	08/13/2025	ND	174	86.8	200	1.63		
EXT DRO >C28-C36	179	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 95.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.5 % 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:	08/13/2025	Sampling Date:	08/12/2025
Reported:	08/14/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS58 2' (H255012-34)

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	08/13/2025	ND	1.79	89.3	2.00	5.13	
Toluene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	4.37	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.88	93.8	2.00	3.24	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.52	92.0	6.00	3.29	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2025	ND	200	100	200	0.980	
DRO >C10-C28*	424	10.0	08/14/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	58.9	10.0	08/14/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.3 % 40.6-153

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 4

Company Name: Ensolum, LLC	BILL TO	P.O. #:	ANALYSIS REQUEST
Project Manager: Tracy Hillard	Company: XTO Energy, Inc	Attn: Colton Brown	
Address: 601 N Marientfield Street, Suite 400	Address: 3104 E Greene St	City: Carlsbad	
City: Midland	State: TX	Zip: 79701	
Phone #: 575-937-3906	Project Owner: XTO Energy	State: NM	
Project #: 03C1558701	Project Location: 32.06367, -103.87966	Zip: 88220	
Project Name: Western CDP - Spill	Sampler Name: Jesse Dorman	Phone #:	
Project Location: 32.06367, -103.87966	FOR LAB USE ONLY	Fax #:	

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H55012	F5225	2'	C	1								8/12/25	8:48			
	F5226												8:51			
	F5227												8:54			
	F5228												8:56			
	F5229												9:20			
	F530												9:25			
	F531												9:30			
	F532												9:35			
	F533												9:50			
	F534												9:55			

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Relinquished By: *[Signature]* Date: 8/13/25 Time: 1:00p

Received By: *[Signature]* Date: 8/13/25 Time: 1:00p

Delivered By: (Circle One) UPS - Bus - Other: Observed Temp. °C: 4.1°C Corrected Temp. °C: 4.4°C

Sample Condition: Cool Intact Yes No

Checked By: *[Signature]*

Turnaround Time: #140 to #113 Standard Push 24hr

Bacteria (only) Copol Intact Yes No

Corrected Temp. °C: _____

REMARKS: Incident Number: NAPP2519241839 Cost Center: 1083971001 GFCM: 48605000

Verbal Result: Yes No Add'l Phone #: _____

All Results are emailed. Please provide Email address: jreich@ensolum.com
BBell@ensolum.com, TMorrissey@ensolum.com, Jdorman@ensolum.com
THillard@ensolum.com, KThomason@ensolum.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2084

Company Name: Ensolum, LLC
Project Manager: Tracy Hillard
Address: 601 N Marientfield Street, Suite 400
City: Midland State: TX Zip: 79701
Phone #: 575-937-3906 Fax #: Project Owner: XTO Energy
Project #: 03C1558701 Project Location: Western CDP - Spill
Project Name: Western CDP - Spill
Project Location: 32.06367, -103.87966
Sampler Name: Jesse Dorman

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							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
11	FS33	2'	C	1								6/1/25	1000			
12	FS36		C	1								6/1/25	1005			
13	FS37		C	1								6/1/25	1135			
14	FS38		C	1								6/1/25	1140			
15	FS34		C	1								6/1/25	1145			
16	FS40		C	1								6/1/25	1216			
17	FS41		C	1								6/1/25	1205			
18	FS42		C	1								6/1/25	1210			
19	FS43		C	1								6/1/25	1210			
20	FS44		C	1								6/1/25	1215			

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Relinquished By: [Signature]
Date: 8/13/25
Received By: [Signature]
Date: 8/13/25

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: Observed Temp: 41.1 Corrected Temp: 41.4

Sample Condition: Cool Intact Yes No
Checked By: [Signature]
Turnaround Time: Standard 4-6 hrs
Thermometer ID: #113
Correction Factor: 0.5°C

REMARKS: Incident Number: nAPP2519241839
Cost Center: 1083971001
GFCM: 48605000
All Results are emailed. Please provide Email address: JReich@ensolum.com
BBell@ensolum.com, TMorrissey@ensolum.com, Jdorman@ensolum.com
THillard@ensolum.com, KThomason@ensolum.com
Bacteria (only) Sample Condition: Cool Intact Yes No



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 4

Company Name: Ensolum, LLC

Project Manager: Tracy Hillard

Address: 601 N Marientfield Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 575-937-3906

Project #: 03C1558701 Project Owner: XTO Energy

Project Name: Western CDP - Spill

Project Location: 32.06367, -103.87966

Sampler Name: Jesse Dorman

FOR LAB USE ONLY

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		DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					
105501a	F545	2'										6/1/25	12:18				
21	F546												12:19				
22	F547												12:20				
23	F548												12:21				
24	F549												12:30				
25	F550												12:35				
26	F551												12:40				
27	F552												12:45				
28	F553												12:50				
29	F554												12:55				
30																	

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Relinquished By:

Date: 8-13-25

Received By: Spodeigney

Verbal Result: Yes No

Add'l Phone #:

All Results are emailed. Please provide Email address: jreich@ensolum.com
BBell@ensolum.com, TMorrissey@ensolum.com, Jdorman@ensolum.com
THillard@ensolum.com, KThomason@ensolum.com

REMARKS: Incident Number: NAPP2519241839
Cost Center: 1083971001
GFCM: 48605000

Turnaround Time: 183 Standard Rush

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp: 4.1

Corrected Temp: 4.4

Sample Condition Cool Intact

Thermometer ID #113

Bacteria (only) Cool Intact

Sample Condition Observed Temp: C

FORM-006 R.3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 4

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marientfield Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #: Project Owner: XTO Energy
 Project #: 03C1558701 Project Name: Western CDP - Spill
 Project Location: 32.06367, -103.87966
 Sampler Name: Jesse Dorman

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						DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H55012	F555	2	(G)	1							5/12/05	1259			
	F556	2	(G)	1							5/12/05	1300			
	F557	2	(G)	1							5/12/05	1301			
	F558	2	(G)	1							5/12/05	1302			

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Relinquished By: [Signature]
 Received By: [Signature]
 Date: 8-13-05
 Time: 1:00
 Received By: [Signature]

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: Observed Temp. °C: 4.1
 Corrected Temp. °C: 4.4
 Sample Condition: Cool Intact Yes No
 Checked By: [Signature]
 Turnaround Time: Standard Rush
 Thermometer ID #113 Correction Factor: -0.5°C
 Bacteria (only) Cool Intact Yes No Yes No
 Sample Condition Observed Temp. °C Corrected Temp. °C

FORM-006 R.3.2 10/07/21
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 20, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WESTERN CDP

Enclosed are the results of analyses for samples received by the laboratory on 08/19/25 16:23.

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".

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:	08/19/2025	Sampling Date:	08/19/2025
Reported:	08/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS26A 4' (H255174-01)

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	08/19/2025	ND	1.81	90.3	2.00	14.0		
Toluene*	<0.050	0.050	08/19/2025	ND	1.93	96.6	2.00	13.5		
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.94	96.9	2.00	12.1		
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.97	99.4	6.00	12.1		
Total BTEX	<0.300	0.300	08/19/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/20/2025	ND	416	104	400	3.92		

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	08/19/2025	ND	178	89.0	200	3.88		
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	161	80.5	200	4.71		
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND						

Surrogate: 1-Chlorooctane 83.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.8 % 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
 TRACY HILLARD
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	08/19/2025	Sampling Date:	08/19/2025
Reported:	08/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS20A 4' (H255174-02)

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	08/19/2025	ND	1.81	90.3	2.00	14.0	
Toluene*	<0.050	0.050	08/19/2025	ND	1.93	96.6	2.00	13.5	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.94	96.9	2.00	12.1	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.97	99.4	6.00	12.1	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/20/2025	ND	416	104	400	3.92	

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	08/19/2025	ND	178	89.0	200	3.88	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	161	80.5	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.0 % 40.6-153

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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:	08/19/2025	Sampling Date:	08/19/2025
Reported:	08/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS15A 4' (H255174-03)

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	08/19/2025	ND	1.81	90.3	2.00	14.0	
Toluene*	<0.050	0.050	08/19/2025	ND	1.93	96.6	2.00	13.5	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.94	96.9	2.00	12.1	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.97	99.4	6.00	12.1	
Total BTEX	<0.300	0.300	08/19/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/20/2025	ND	416	104	400	3.92	

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	08/19/2025	ND	178	89.0	200	3.88	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	161	80.5	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.7 % 40.6-153

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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:	08/19/2025	Sampling Date:	08/19/2025
Reported:	08/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS11A 4' (H255174-04)

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	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/20/2025	ND	416	104	400	3.92	

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	08/19/2025	ND	178	89.0	200	3.88	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	161	80.5	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane 84.5 % 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
 TRACY HILLARD
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	08/19/2025	Sampling Date:	08/19/2025
Reported:	08/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS12A 4' (H255174-05)

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	08/19/2025	ND	1.62	80.9	2.00	3.85		
Toluene*	<0.050	0.050	08/19/2025	ND	1.70	84.8	2.00	5.32		
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.71	85.7	2.00	5.79		
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.04	84.0	6.00	5.98		
Total BTEX	<0.300	0.300	08/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/20/2025	ND	416	104	400	3.92		

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	08/19/2025	ND	178	89.0	200	3.88		
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	161	80.5	200	4.71		
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND						

Surrogate: 1-Chlorooctane 88.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.9 % 40.6-153

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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:	08/19/2025	Sampling Date:	08/19/2025
Reported:	08/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS37A 4' (H255174-06)

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	08/19/2025	ND	1.62	80.9	2.00	3.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.70	84.8	2.00	5.32	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.71	85.7	2.00	5.79	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.04	84.0	6.00	5.98	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/20/2025	ND	416	104	400	3.92	

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	08/20/2025	ND	178	89.0	200	3.88	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	161	80.5	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.3 % 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
 TRACY HILLARD
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	08/19/2025	Sampling Date:	08/19/2025
Reported:	08/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW07 0-4' (H255174-07)

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	08/19/2025	ND	1.62	80.9	2.00	3.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.70	84.8	2.00	5.32	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.71	85.7	2.00	5.79	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.04	84.0	6.00	5.98	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/20/2025	ND	416	104	400	3.92	

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	08/20/2025	ND	178	89.0	200	3.88	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	161	80.5	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 94.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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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:	08/19/2025	Sampling Date:	08/19/2025
Reported:	08/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS48A 4' (H255174-08)

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	08/19/2025	ND	1.62	80.9	2.00	3.85		
Toluene*	<0.050	0.050	08/19/2025	ND	1.70	84.8	2.00	5.32		
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.71	85.7	2.00	5.79		
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.04	84.0	6.00	5.98		
Total BTEX	<0.300	0.300	08/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/20/2025	ND	416	104	400	3.92		

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	08/20/2025	ND	178	89.0	200	3.88		
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	161	80.5	200	4.71		
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND						

Surrogate: 1-Chlorooctane 85.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.0 % 40.6-153

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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:	08/19/2025	Sampling Date:	08/19/2025
Reported:	08/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW08 2-4' (H255174-09)

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	08/19/2025	ND	1.62	80.9	2.00	3.85		
Toluene*	<0.050	0.050	08/19/2025	ND	1.70	84.8	2.00	5.32		
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.71	85.7	2.00	5.79		
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.04	84.0	6.00	5.98		
Total BTEX	<0.300	0.300	08/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/20/2025	ND	416	104	400	3.92		

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	08/20/2025	ND	178	89.0	200	3.88		
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	161	80.5	200	4.71		
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND						

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.6 % 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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101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

ANALYSIS REQUEST

BILL TO

Company Name: Ensolum, LLC		P.O. #:	
Project Manager: Tracy Hillard		Company: XTO Energy Inc	
Address: 3122 National Parks Hwy		Attn: Colton Brown	
City: Carlsbad	State: NM Zip: 88220	Address: 3104 E Green St	
Phone #: 575 937 3906	Fax #:	City: Carlsbad	
Project #: 03C1558701	Project Owner: XTO	State: NM Zip: 88220	
Project Name: Western CDP		Phone #:	
Project Location: 32.06367, -103.81966		Fax #:	
Sampler Name: Joshua Bockley			

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H055714	FS26A	4	C	1	X										
	FS20A	4	C	1	X										
	FS15A	4	C	1	X										
	FS11A	4	C	1	X										
	FS12A	4	C	1	X										
	FS37A	0-4	C	1	X										
	SW07	4	C	1	X										
	FS48A	4	C	1	X										
	SW08	2-4	C	1	X										

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Relinquished By:

Date: 8/10/25
 Time: 10:23

Received By:

Date: 8/19/25
 Time: 13:40

REMARKS: WAP 251924 1839
 Incident: 0953971001
 Cost Center: 6FCM: 48605000-Spills

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

Observed Temp. °C: 3.10
 Corrected Temp. °C: 3.30

Sample Condition: Cool Intact
 Yes No

CHECKED BY: (Initials)

Turnaround Time: 24 hr Same Day
 Thermometer ID: #148 RUST
 Correction Factor: 10.32 Bacteria (only)
 Cool Intact
 Yes No

FORM-006 R.3.2 10/07/21

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



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

August 22, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WESTERN CDP

Enclosed are the results of analyses for samples received by the laboratory on 08/21/25 16:18.

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".

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:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW06 0-2' (H255233-01)

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	08/21/2025	ND	1.76	88.2	2.00	11.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/22/2025	ND	400	100	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	08/21/2025	ND	205	103	200	6.76	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	93.8	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.5 % 40.6-153

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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:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW09 0-2' (H255233-02)

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	08/21/2025	ND	1.76	88.2	2.00	11.8		
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/22/2025	ND	400	100	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	08/21/2025	ND	205	103	200	6.76		
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	93.8	200	10.0		
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND						

Surrogate: 1-Chlorooctane 91.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.8 % 40.6-153

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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:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW10 0-2' (H255233-03)

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	08/21/2025	ND	1.76	88.2	2.00	11.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/22/2025	ND	400	100	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	08/21/2025	ND	205	103	200	6.76	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	93.8	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.7 % 40.6-153

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Analytical Results For:

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

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS43A 3' (H255233-04)

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	08/21/2025	ND	1.76	88.2	2.00	11.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/22/2025	ND	400	100	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	08/21/2025	ND	205	103	200	6.76	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	93.8	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.1 % 40.6-153

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Analytical Results For:

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

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS44A 3' (H255233-05)

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	08/21/2025	ND	1.76	88.2	2.00	11.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/22/2025	ND	400	100	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	08/21/2025	ND	205	103	200	6.76	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	93.8	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane 90.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.3 % 40.6-153

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Analytical Results For:

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

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS45A 3' (H255233-06)

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	08/21/2025	ND	1.76	88.2	2.00	11.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/22/2025	ND	400	100	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	08/21/2025	ND	205	103	200	6.76	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	93.8	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.3 % 40.6-153

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Analytical Results For:

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

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS53A 3' (H255233-07)

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	08/21/2025	ND	1.76	88.2	2.00	11.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/22/2025	ND	400	100	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	08/21/2025	ND	205	103	200	6.76	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	93.8	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.2 % 40.6-153

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Analytical Results For:

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

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS54A 3' (H255233-08)

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	08/21/2025	ND	1.76	88.2	2.00	11.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/22/2025	ND	400	100	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	08/21/2025	ND	205	103	200	6.76	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	93.8	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.8 % 40.6-153

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Analytical Results For:

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

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS55A 3' (H255233-09)

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	08/21/2025	ND	1.76	88.2	2.00	11.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/22/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	223	111	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	222	111	200	7.98	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.7 % 40.6-153

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Analytical Results For:

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

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS57A 4' (H255233-10)

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	08/21/2025	ND	1.76	88.2	2.00	11.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/22/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	223	111	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	222	111	200	7.98	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 40.6-153

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Analytical Results For:

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

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW11 2-4' (H255233-11)

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	08/21/2025	ND	1.76	88.2	2.00	11.8		
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/22/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	223	111	200	4.27		
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	222	111	200	7.98		
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND						

Surrogate: 1-Chlorooctane 87.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.7 % 40.6-153

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Analytical Results For:

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

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW12 2-3' (H255233-12)

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	08/21/2025	ND	1.76	88.2	2.00	11.8		
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/22/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	223	111	200	4.27		
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	222	111	200	7.98		
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND						

Surrogate: 1-Chlorooctane 88.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.7 % 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
 TRACY HILLARD
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS59 3' (H255233-13)

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	08/21/2025	ND	1.76	88.2	2.00	11.8		
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/22/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	223	111	200	4.27		
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	222	111	200	7.98		
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND						

Surrogate: 1-Chlorooctane 101 % 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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Analytical Results For:

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

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS60 3' (H255233-14)

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	08/21/2025	ND	1.76	88.2	2.00	11.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/22/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	223	111	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	222	111	200	7.98	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.8 % 40.6-153

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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:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/22/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW03 0-3' (H255233-15)

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	08/21/2025	ND	1.76	88.2	2.00	11.8		
Toluene*	<0.050	0.050	08/21/2025	ND	1.86	93.0	2.00	8.83		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	7.15		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.56	92.7	6.00	7.66		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/22/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	223	111	200	4.27		
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	222	111	200	7.98		
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND						

Surrogate: 1-Chlorooctane 93.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.0 % 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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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 575 937 3906 Fax #:
 Project #: 03C1558701 Project Owner: XTO
 Project Name: Western CDP
 Project Location: 32.06367, -103.81966
 Sampler Name: Joshua Boxley
 P.O. #:
 Company: XTO Energy Inc
 Attn: Colton Brown
 Address: 3104 E Green St
 City: Carlsbad State: NM Zip: 88220
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	FOR LAB USE ONLY		DATE	TIME	Chlorides	TPH	BTEX
			(G)RAB OR (C)OMP.	# CONTAINERS					
185233	SW06	0-2	C	1	8/21/25	0925	X	X	X
	SW09	0-2	1	1		0930	X	X	X
	SW10	0-2	1	1		0935	X	X	X
	FS43A	3	1	1		1330	X	X	X
	FS44A	3	1	1		1340	X	X	X
	FS45A	3	1	1		1335	X	X	X
	FS53A	3	1	1		1410	X	X	X
	FS54A	3	1	1		1405	X	X	X
	FS55A	3	1	1		1400	X	X	X
	FS71A	4	1	1		8/21/25 1225	X	X	X

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Relinquished By: *[Signature]* Date: 8/21/25
 Received By: *[Signature]* Date: 8/21/25
 Relinquished By: *[Signature]* Date: 8/21/25
 Received By: *[Signature]* Date: 8/21/25
 Turnaround Time: 24 hrs
 Thermostat ID: #100
 Correction Factor: #0.3
 Bacteria (only) Sample Condition: Intact Cool Yes No
 Corrected Temp. °C: 5.4
 REMARKS: APP 25 1924 1839
 Cost Center: 1083971001
 GFCM: 48605000-5pills
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: jboxley@ensolum.com
 T.Hillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com

FORM-006 R.3.2 10/07/21

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hilliard
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 575 937 3906 Fax #:
 Project #: 03C1558701 Project Owner: XTO
 Project Name: Western CDP
 Project Location: 32.06367, -103.81966
 Sampler Name: Joshua Baskley
 P.O. #:
 Company: XTO Energy Inc
 Attn: Colton Brown
 Address: 3104 E Green St
 City: Carlsbad State: NM Zip: 88220
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
485333	SW11	2-4	C	1	X						6/21/25	1220	X	X	X
	SW12	2-3	C	1	X						6/21/25	1350	X	X	X
	FS59	3	C	1	X						6/21/25	1415	X	X	X
	FS60	3	C	1	X						6/21/25	1420	X	X	X
	SW03	0-3	C	1	X						6/21/25	1425	X	X	X

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Relinquished By: *[Signature]* Date: 6/21/25 Time: 14:32
 Received By: *[Signature]*
 Relinquished By: *[Signature]* Date: 6/21/25 Time: 14:32
 Received By: *[Signature]*
 Delivered By: (Circle One) *[Signature]* Observed Temp. °C: 5.1 Corrected Temp. °C: 5.4
 Sample Condition: Cool Intact Sample Condition: Cool Intact
 Checked By: *[Signature]*
 Remarks: APP 2519241839 Incident: WPP 3971001
 Turnaround Time: 24 hr
 Thermometer ID: *[Signature]*
 Corrosion Factor: *[Signature]*
 Bacteria (only) Sample Condition: Cool Intact Observed Temp. °C: *[Signature]* Corrected Temp. °C: *[Signature]*

FORM-006 R.3.2 10/07/21

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

October 07, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WESTERN CDP

Enclosed are the results of analyses for samples received by the laboratory on 10/03/25 16:14.

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".

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:	10/03/2025	Sampling Date:	10/02/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SS 01 0.5 (H256211-01)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/06/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 62.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 61.2 % 39.9-141

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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:	10/03/2025	Sampling Date:	10/02/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SS 02 0.5 (H256211-02)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/06/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 75.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.2 % 39.9-141

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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:	10/03/2025	Sampling Date:	10/02/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SS 03 0.5 (H256211-03)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 73.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.2 % 39.9-141

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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:	10/03/2025	Sampling Date:	10/02/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SS 04 0.5 (H256211-04)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 67.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 65.3 % 39.9-141

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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:	10/03/2025	Sampling Date:	10/03/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SS 05 0.5 (H256211-05)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 78.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.8 % 39.9-141

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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:	10/03/2025	Sampling Date:	10/02/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SS 06 0.5 (H256211-06)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 80.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.1 % 39.9-141

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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:	10/03/2025	Sampling Date:	10/02/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SS 07 0.5 (H256211-07)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 75.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.3 % 39.9-141

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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:	10/03/2025	Sampling Date:	10/02/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SS 08 0.5 (H256211-08)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 77.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.1 % 39.9-141

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Analytical Results For:

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

Received:	10/03/2025	Sampling Date:	10/03/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SS 09 0.5 (H256211-09)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 82.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.4 % 39.9-141

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Analytical Results For:

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

Received:	10/03/2025	Sampling Date:	10/03/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SS 10 0.5 (H256211-10)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 85.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.8 % 39.9-141

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Tracy Hillard

P.O. #: Company: XTO Energy Inc

Address: 3122 National Parks Hwy

Address: 3104 E Green St

City: Carlsbad

City: Carlsbad

Phone #: 575 937 3906

State: NM Zip: 88220

Project #: 03C1558701

Project Owner: XTO

Project Name: Western CDP

State: NM Zip: 88220

Project Location: 32.06367, -103.87966

Phone #:

Sampler Name: Joshua Isakley

Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.		SAMPLING		DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :							
HAS10011	5501	0.5	G	1											0835					
	5502														0845					
	5503														0950					
	5504														103.15					
	5505														0945					
	5506														1020					
	5507														1015					
	5508														103.25					
	5509														1145					
	5510														1150					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether stated or not, shall be limited to the amount paid by the client for the analysis. 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 interruption, 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: [Signature]

Received By: [Signature]

Date: 03-25-14

Received By: [Signature]

Relinquished By: [Signature]

Received By: [Signature]

Date: 03-25-14

Received By: [Signature]

Time: 10:14

Received By: [Signature]

Observed Temp. 2.8

Sample Condition Cool Intact

Corrected Temp. 3.1

Checked By: [Signature]

Turnaround Time: 48 hrs

Thermometer ID: #148

Cost Center: 1083971001

REMARKS: APP 25 1924 1839

Incident #: 48605000-5pills

Cost Center: 1083971001

Turnaround Time: 48 hrs

Thermometer ID: #148

Cost Center: 1083971001

REMARKS: APP 25 1924 1839

Incident #: 48605000-5pills

Cost Center: 1083971001

Turnaround Time: 48 hrs

Thermometer ID: #148

Cost Center: 1083971001

REMARKS: APP 25 1924 1839

Incident #: 48605000-5pills

Cost Center: 1083971001

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Cost Center: 1083971001

Turnaround Time: 48 hrs

Thermometer ID: #148

Cost Center: 1083971001

REMARKS: APP 25 1924 1839

Incident #: 48605000-5pills

Cost Center: 1083971001

Turnaround Time: 48 hrs

Thermometer ID: #148

Cost Center: 1083971001

REMARKS: APP 25 1924 1839

Incident #: 48605000-5



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

October 07, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WESTERN CDP

Enclosed are the results of analyses for samples received by the laboratory on 10/03/25 16:14.

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".

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:	10/03/2025	Sampling Date:	10/03/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW04 0-2' (H256212-01)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08	GC-NC	
Total Xylenes*	0.154	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59	GC-NC1	
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	106	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 74.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.9 % 39.9-141

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

Received:	10/03/2025	Sampling Date:	10/03/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.06367, -103.87966		

Sample ID: FS61 2' (H256212-02)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 76.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.8 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hilliard
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 575 937 3906 Fax #:
 Project #: 03C1558701 Project Owner: XTO
 Project Name: Western CDP
 Project Location: 32.06367, -103.81966
 Sampler Name: Joshua Bailey
 P.O. #:
 Company: XTO Energy Inc
 Attn: Colton Brown
 Address: 3104 E Green St
 City: Carlsbad State: NM Zip: 88220
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
HS6212	SWR24	0-2	C1	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10/3/25	1015	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	FS61	2	C1	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10/3/25	1050	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Relinquished By: *[Signature]* Date: 10-2-25
 Received By: *[Signature]* Date: 10-3-25
 Relinquished By: *[Signature]* Date: 10-3-25
 Received By: *[Signature]* Date: 10-3-25

Delivered By: (Circle One) UPS Bus Other:
 Observed Temp. °C: 8.8°C Corrected Temp. °C: 8.1°C
 Sample Condition: Cool Intact Yes No Yes No
 CHECKED BY: *[Signature]*

Turnaround Time: 48 hrs **Standard** **Rush**
 Thermometer ID: #1423 Correction Factor: #0.3°C
 Incident: w APP 2519241839 Cost Center: 1083971001
 Bacteria (only) Bacterioides Coliform E. coli Enterococcus Salmonella Staphylococcus Streptococcus Yeast Fungi Other:
 Add'l Phone #:
 All Results are emailed. Please provide Email address: jbailey@ensolum.com
 TH Hilliard @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com
 JReich@ensolum.com
 REMARKS: CIS 0408401K
 GFCM: 48605000 - Spills

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

October 07, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WESTERN CDP

Enclosed are the results of analyses for samples received by the laboratory on 10/03/25 16:14.

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".

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:	10/03/2025	Sampling Date:	10/02/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: CS 01 0.5 (H256213-01)

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	10/06/2025	ND	1.66	83.0	2.00	4.83	
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65	
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08	
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59	
Total BTEX	<0.300	0.300	10/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 74.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.2 % 39.9-141

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

Received:	10/03/2025	Sampling Date:	10/03/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: CS 02 0.5 (H256213-02)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	10.5	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 73.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.2 % 39.9-141

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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:	10/03/2025	Sampling Date:	10/03/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: CS 03 0.5 (H256213-03)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	11.9	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 69.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 68.2 % 39.9-141

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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:	10/03/2025	Sampling Date:	10/02/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: CS 04 0.5 (H256213-04)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 73.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.5 % 39.9-141

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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:	10/03/2025	Sampling Date:	10/02/2025
Reported:	10/07/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.06367, -103.87966		

Sample ID: CS 05 0.5 (H256213-05)

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	10/06/2025	ND	1.66	83.0	2.00	4.83		
Toluene*	<0.050	0.050	10/06/2025	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	10/06/2025	ND	1.78	88.9	2.00	2.08		
Total Xylenes*	<0.150	0.150	10/06/2025	ND	5.54	92.4	6.00	1.59		
Total BTEX	<0.300	0.300	10/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/06/2025	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	10/04/2025	ND	175	87.7	200	2.38		
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	176	87.8	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND						

Surrogate: 1-Chlorooctane 77.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.6 % 39.9-141

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:	
Project Manager: Tracy Hilliard		Company: XTO Energy Inc	
Address: 3122 National Parks Hwy		Attn: Colton Brown	
City: Carlsbad	State: NM Zip: 88220	Address: 3104 E Green St	
Phone #: 575 937 3906	Fax #:	City: Carlsbad	
Project #: 03C1558701	Project Owner: XTO	State: NM Zip: 88220	
Project Name: Western CDP	Project Location: 32.06367, -103.81966	Phone #:	
Sampler Name: Joshua Boxley		Fax #:	

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H520613	C501	0.5	C	1		X						10.2.05	11:30	X	X	X
	C502	↓	C	1		X						10.3.25	10:15	X	X	X
	C503	↓	C	1		X						10.3.25	10:20	X	X	X
	C504	↓	C	1		X						10.2.05	11:25	X	X	X
	C505	0.5	C	1		X						10.2.05	11:20	X	X	X

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Relinquished By: *[Signature]* Date: 10/14/14
 Received By: *[Signature]* Date: 10/14/14
 Relinquished By: *[Signature]* Date: 10/14/14
 Received By: *[Signature]* Date: 10/14/14

Delivered By: (Circle One) UPS Bus Other: Corrected Temp. °C: 3.1

Observed Temp. °C: 2.8
 Corrected Temp. °C: 3.1

Sample Condition: Cool Intact Yes No

Checked By: *[Signature]*

Turnaround Time: Standard Rush

Thermometer ID: #140
 Correction Factor: +0.3

Bacteria (only) Sample Condition: Cool Intact Yes No

Corrected Temp. °C: 6FCM: 48605000 - Spills

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

October 20, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WESTERN CDP

Enclosed are the results of analyses for samples received by the laboratory on 10/16/25 12:10.

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".

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:	10/16/2025	Sampling Date:	10/15/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW13 0-3' (H256529-01)

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	10/17/2025	ND	2.05	103	2.00	2.37		
Toluene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.86		
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.11	102	6.00	2.38		
Total BTEX	<0.300	0.300	10/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/17/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/17/2025	ND	211	105	200	0.266		
DRO >C10-C28*	19.4	10.0	10/17/2025	ND	214	107	200	2.69		
EXT DRO >C28-C36	<10.0	10.0	10/17/2025	ND						

Surrogate: 1-Chlorooctane 71.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 68.0 % 39.9-141

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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:	10/16/2025	Sampling Date:	10/15/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW14 0-2' (H256529-02)

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	10/17/2025	ND	2.05	103	2.00	2.37		
Toluene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.86		
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.11	102	6.00	2.38		
Total BTEX	<0.300	0.300	10/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/17/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/17/2025	ND	211	105	200	0.266		
DRO >C10-C28*	27.6	10.0	10/17/2025	ND	214	107	200	2.69		
EXT DRO >C28-C36	<10.0	10.0	10/17/2025	ND						

Surrogate: 1-Chlorooctane 79.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.7 % 39.9-141

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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:	10/16/2025	Sampling Date:	10/15/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW15 0-2' (H256529-03)

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	10/17/2025	ND	2.05	103	2.00	2.37		
Toluene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.86		
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.11	102	6.00	2.38		
Total BTEX	<0.300	0.300	10/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/17/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/17/2025	ND	211	105	200	0.266		
DRO >C10-C28*	13.7	10.0	10/17/2025	ND	214	107	200	2.69		
EXT DRO >C28-C36	<10.0	10.0	10/17/2025	ND						

Surrogate: 1-Chlorooctane 85.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.8 % 39.9-141

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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:	10/16/2025	Sampling Date:	10/15/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW16 0-2' (H256529-04)

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	10/16/2025	ND	2.14	107	2.00	1.75		
Toluene*	<0.050	0.050	10/16/2025	ND	2.14	107	2.00	1.15		
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.16	108	2.00	0.874		
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.41	107	6.00	0.816		
Total BTEX	<0.300	0.300	10/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/17/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/17/2025	ND	195	97.4	200	5.77		
DRO >C10-C28*	<10.0	10.0	10/17/2025	ND	219	109	200	3.09		
EXT DRO >C28-C36	<10.0	10.0	10/17/2025	ND						

Surrogate: 1-Chlorooctane 75.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.2 % 39.9-141

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Analytical Results For:

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

Received:	10/16/2025	Sampling Date:	10/15/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SW17 0-4' (H256529-05)

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	10/16/2025	ND	2.14	107	2.00	1.75		
Toluene*	<0.050	0.050	10/16/2025	ND	2.14	107	2.00	1.15		
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.16	108	2.00	0.874		
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.41	107	6.00	0.816		
Total BTEX	<0.300	0.300	10/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/17/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/17/2025	ND	195	97.4	200	5.77		
DRO >C10-C28*	38.8	10.0	10/17/2025	ND	219	109	200	3.09		
EXT DRO >C28-C36	<10.0	10.0	10/17/2025	ND						

Surrogate: 1-Chlorooctane 77.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.3 % 39.9-141

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Analytical Results For:

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

Received:	10/16/2025	Sampling Date:	10/15/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	WESTERN CDP	Sampling Condition:	Cool & Intact
Project Number:	03C1558701	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.06367, -103.87966		

Sample ID: SS11 0.5' (H256529-06)

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	10/16/2025	ND	2.14	107	2.00	1.75	
Toluene*	<0.050	0.050	10/16/2025	ND	2.14	107	2.00	1.15	
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.16	108	2.00	0.874	
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.41	107	6.00	0.816	
Total BTEX	<0.300	0.300	10/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/17/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2025	ND	195	97.4	200	5.77	
DRO >C10-C28*	<10.0	10.0	10/17/2025	ND	219	109	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	10/17/2025	ND					

Surrogate: 1-Chlorooctane 81.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.0 % 39.9-141

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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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 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC	P.O. #:
Project Manager: Tracy Hillard	Company: XTO Energy Inc
Address: 3122 National Parks Hwy	Attn: Colton Brown
City: Carlsbad	Address: 3104 E Green St
State: NM Zip: 88220	City: Carlsbad
Phone #: 575 937 3906 Fax #:	State: NM Zip: 88220
Project #: 03C1558701 Project Owner: XTO	Phone #:
Project Name: Western CDP	Fax #:
Project Location: 32.06367, -103.81966	
Sampler Name: Joshua Bexley	

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						ACID/BASE:
H82539	1 SW13	0-3	C	1							X	10.15.25	1630	X	X	X
	2 SW14	0-2	C	1							X	10.15.25	1640	X	X	X
	3 SW15	0-2	C	1							X	10.15.25	1045	X	X	X
	4 SW16	0-2	C	1							X	10.15.25	1110	X	X	X
	5 SW17	0-1	C	1							X	10.15.25	1115	X	X	X
	6 SW11	0-5	C	1							X	10.15.25	1300	X	X	X

CS-040240115

JTB

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Relinquished By:	Date: 10/10/05	Received By:
Time: 1810		

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

FORM-006 R 3.2 10/07/21 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabsnm.com

REMARKS: APP2519241839
 Cost Center: 1083971001
 Turnaround Time: 48hr
 Thermometer ID: #140
 Correction Factor: 0.703
 Bacteria (only) Sample Condition
 Cool Intact Yes No
 Observed Temp. °C
 Corrected Temp. °C
 GFCM: 48605000-5pills



APPENDIX F

Spill Volume Calculation

Location:	Western CDP	
Spill Date:	7/10/2025	
Incident #:		
Area 1		
Approximate Area =	14300	sq. ft.
Average Saturation (or depth) of spill =	0.15	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	145.00	bbls
Total Produced Water =		bbls
Area 2		
Approximate Area =		sq. ft.
Average Saturation (or depth) of spill =		inches
VOLUME OF LEAK		
Total Crude Oil =		bbls
Total Produced Water =		bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	145.00	bbls
Total Produced Water =		bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	140.00	bbls
Total Produced Water =		bbls

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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 484229

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 484229
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2519241839
Incident Name	NAPP2519241839 WESTERN CDP @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Western CDP
Date Release Discovered	07/10/2025
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil 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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Crude Oil Released: 145 BBL Recovered: 140 BBL Lost: 5 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 484229

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 484229
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

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

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 07/11/2025
--	--

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QUESTIONS, Page 3

Action 484229

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 484229
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
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	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

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

Requesting a remediation plan approval with this submission	No
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Oil Conservation Division
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CONDITIONS

Action 484229

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 484229
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	7/11/2025

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

QUESTIONS

Action 590332

QUESTIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 590332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2519241839
Incident Name	NAPP2519241839 WESTERN CDP @ A-09-26S-30E
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	WESTERN CDP
Date Release Discovered	07/10/2025
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil 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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Crude Oil Released: 145 BBL Recovered: 140 BBL Lost: 5 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 590332

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 590332
	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: Richard Kotzur Title: Senior Project Manager Email: NMEEnvNotifications@exxonmobil.com Date: 06/01/2026
--	--

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QUESTIONS, Page 3

Action 590332

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 590332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	256
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	18515
GRO+DRO (EPA SW-846 Method 8015M)	17590
BTEX (EPA SW-846 Method 8021B or 8260B)	329
Benzene (EPA SW-846 Method 8021B or 8260B)	509

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

On what estimated date will the remediation commence	07/11/2025
On what date will (or did) the final sampling or liner inspection occur	05/02/2026
On what date will (or was) the remediation complete(d)	05/02/2026
What is the estimated surface area (in square feet) that will be reclaimed	12050
What is the estimated volume (in cubic yards) that will be reclaimed	1120
What is the estimated surface area (in square feet) that will be remediated	12050
What is the estimated volume (in cubic yards) that will be remediated	1120

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

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

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

QUESTIONS, Page 4

Action 590332

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 590332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 06/01/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 590332

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 590332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 590332

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 590332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	513846
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/15/2025
What was the (estimated) number of samples that were to be gathered	40
What was the sampling surface area in square feet	8000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	12050
What was the total volume (cubic yards) remediated	1120
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	12050
What was the total volume (in cubic yards) reclaimed	1120
Summarize any additional remediation activities not included by answers (above)	Site assessment, delineation and excavation activities were conducted at the Site to address the July 10, 2025, release of crude oil. Laboratory analytical results for the final 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. XTO backfilled the excavation with material purchased locally and recontoured to match pre-existing site conditions. Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no sensitive receptors were identified at the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2519241839.

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 06/01/2026
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QUESTIONS, Page 7

Action 590332

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 590332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 590332

CONDITIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 590332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	6/8/2026