



July 7, 2025

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

**Re: Closure Request
Row 5 West Booster Station
Incident Number NAPP2428259758
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 excavation and soil sampling activities performed at the Row 5 West Booster Station (Site). The purpose of excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan (Work Plan)*, was to address impacts to soil resulting from a release of produced water at the Site. XTO is submitting this *Closure Request*, describing excavation and soil sampling activities that have occurred and requesting no further remediation for Incident Number NAPP2428259758.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit K, Section 20, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.1142303°, -103.9071374°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On October 8, 2024, a pump failed resulting in the release of 187 barrels (bbls) of produced water onto a pipeline right-of-way (ROW) and into a pasture area. No fluids were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) submitted on October 8, 2024, and subsequently submitted the Initial C-141 Application (C-141) on October 9, 2024. The release was assigned Incident Number NAPP2428259758.

Ensolum conducted Site assessment and delineation activities across an estimated 72,456 square-foot release area. Delineation soil sample laboratory analytical results indicated total petroleum hydrocarbons (TPH) and/or chloride impacts to soil existed up to a maximum depth of 4 feet below ground surface (bgs). The results were presented in a *Work Plan*, which was submitted on January 2, 2025, and approved by the NMOCD on January 6, 2025, with conditions. The *Work Plan* proposed excavation of impacted soil and confirmation soil sampling that included a 400 square-foot sampling frequency variance for all confirmation floor soil samples. The sampling variance frequency was approved. Delineation soil sample locations are provided on Figure 1. The NMOCD *Work Plan* conditions of approval are below.

The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be

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delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance request to collect floor samples every 400 ft² is approved. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As documented in the approved *Work Plan*, 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
- TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,00 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

Prior to beginning excavation activities and the utilization of heavy equipment at the Site, work authorization was needed from the BLM. A BLM Sundry was submitted to the BLM on November 5, 2024, and was approved by BLM on December 6, 2024. The authorization to proceed email by the BLM is provided in Appendix A.

Ensolum personnel were onsite between February 13 and March 24, 2025, to oversee excavation of impacted soil according to the approved *Work Plan*. Excavation activities were performed by use of heavy equipment. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Once field screening indicated impacted soil was adequately removed, 5-point composite confirmation soil samples were collected every 400 square feet from the floor of the excavation and every 200 square feet from sidewall of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS208 were collected from the floor of the excavation at depths ranging from 1-foot to 4 feet bgs. Confirmation soil samples SW01 through SW11 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The excavation extent and confirmation soil sample locations were mapped utilizing a Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation of the excavation activities are provided in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to 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 Standard Method SM4500.

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After review of confirmation soil sample analytical results, impacted soil was identified in multiple soil sample locations near the north ROW area, where the release occurred. Ensolum personnel returned to the Site between April 28 and May 21, 2025, to oversee the excavation of these soil impacts. Analytical results for confirmation soil samples FS191, FS194, FS195, FS200 through FS208, and SW11 indicated COC concentrations exceeded the reclamation requirement. Due to several active pipelines in the area, a hydrovac truck was utilized to complete the excavation to depths ranging from 2 feet to 3 feet bgs. Following the removal of the soil, confirmation soil samples FS191A, FS194A, FS195A, FS200A through FS208A, and SW11 were subsequently collected. The confirmation soil samples were handled and submitted for the same COCs as described above and submitted to Cardinal. The confirmation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2.

The final excavation extent measured approximately 81,740 square feet. A total of approximately 7,060 cubic yards of impacted soil was removed during the excavation activities. The impacted soil is in the process of being transported and disposed of at Owl Landfill Services, LLC located in Jal, New Mexico. Copies of soil disposal manifests are available upon request. The final excavation was fenced off pending backfilling.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final confirmation floor and sidewall soil samples indicated all COC concentrations were compliant with the Closure Criteria and reclamation standards. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix C.

CLOSURE REQUEST

Excavation activities were conducted at the Site as indicated in the *Work Plan* to address the October 2024 release of produced water. A copy of the approved *Work Plan* is presented in Appendix D. Laboratory analytical results for all confirmation soil samples collected from the final excavation extent indicated COC concentrations were compliant with the Closure Criteria and reclamation requirements. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation will be backfilled with material purchased locally and the Site will be recontoured to match pre-existing Site conditions.

Excavation of soil has mitigated impacts to soil that exceeded Closure Criteria and reclamation requirements at the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further remediation for Incident Number NAPP2428259758.

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

Sincerely,
Ensolum, LLC



Jeremy Reich
Project Geologist



Tacoma Morrissey, MS
Associate Principal

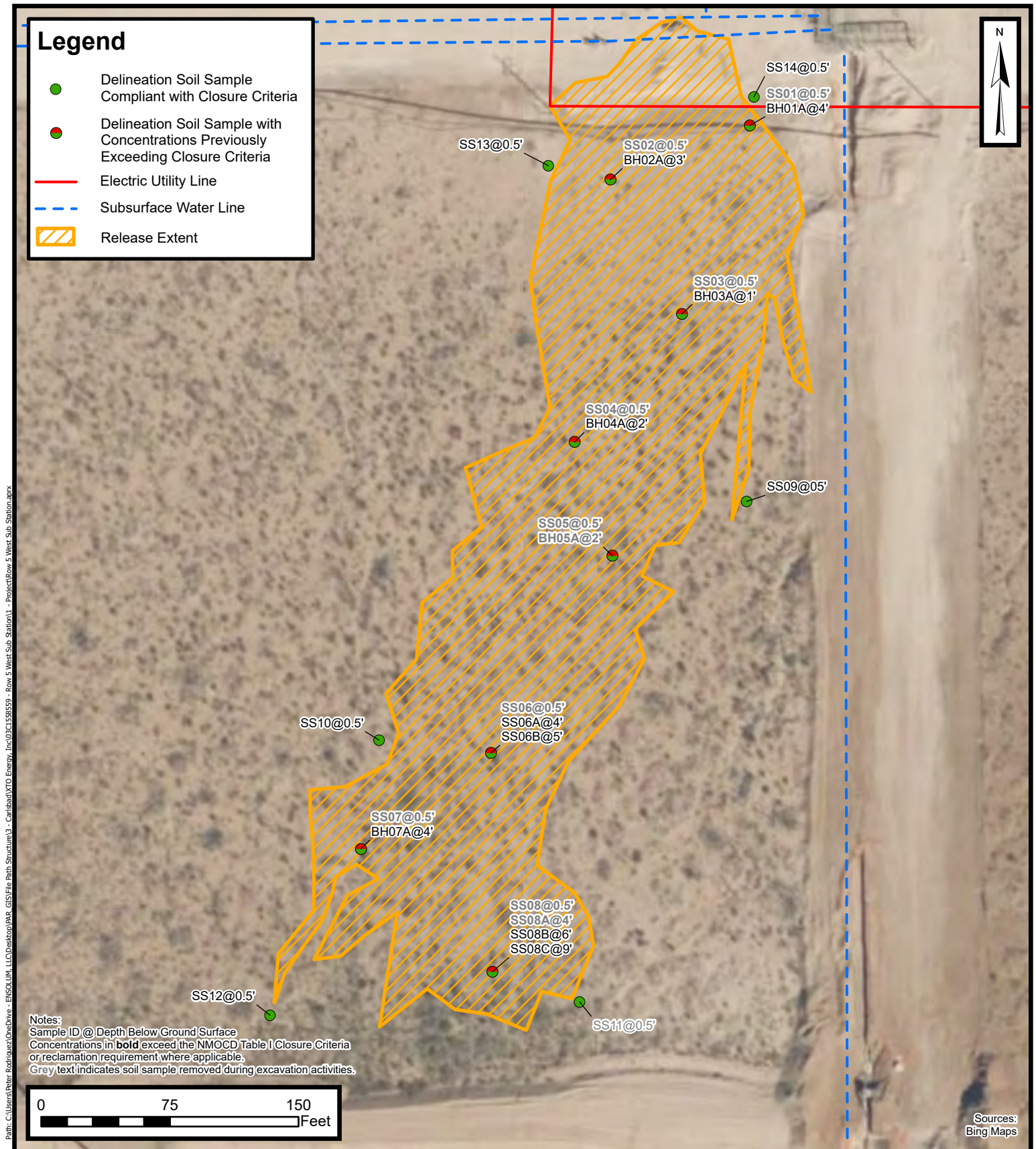
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

Figure 1	Delineation Soil Sample Locations
Figure 2	Confirmation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	BLM Land Access Approval
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	Remediation <i>Work Plan</i> dated January 2, 2025



FIGURES



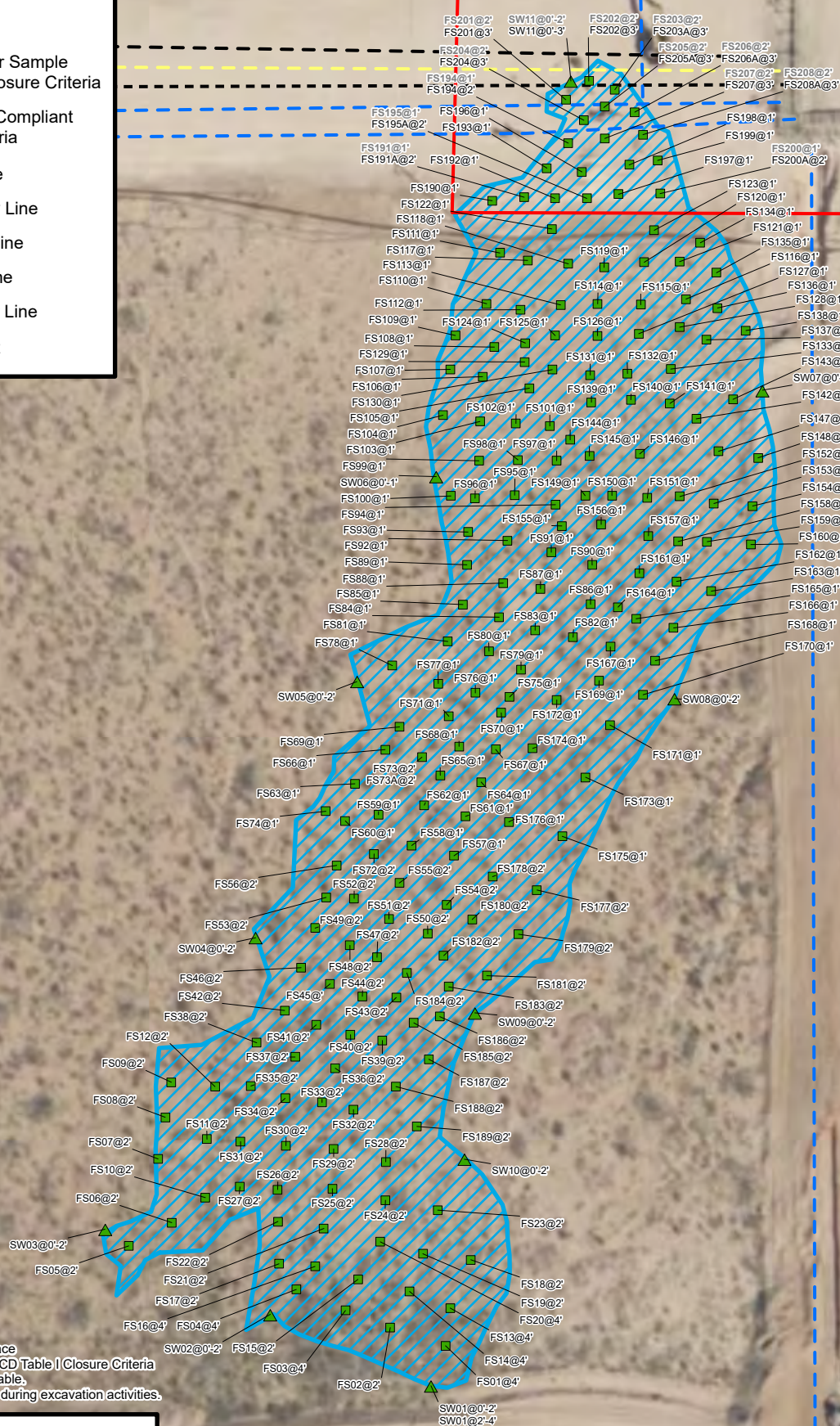
Delineation Soil Sample Locations

XTO Energy, Inc
Row 5 West Sub Station
Incident Number: NAPP2428259758
Unit K, Sec. 20, T25S, 30E
Eddy County, New Mexico

FIGURE
1

Legend

- Confirmation Floor Sample Compliant with Closure Criteria
- ▲ Sidewall Sample Compliant with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Subsurface Gas Line
- Subsurface Oil Line
- Subsurface Water Line
- ▨ Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface
 Concentrations in **bold** exceed the NMOC Table I Closure Criteria
 or reclamation requirement where applicable.
 Grey text indicates soil sample removed during excavation activities.

0 75 150 Feet

Sources:
 Bing Maps

Confirmation Soil Sample Locations

XTO Energy, Inc

Row 5 West Sub Station

Incident Number: NAPP2428259758

Unit K, Sec. 20, T25S, 30E

Eddy County, New Mexico

FIGURE

2

ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
ROW 5 West Booster Station
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	10/31/2024	0.5	<0.050	<0.300	<10.0	625	120	625	745	2,720
BH01A	11/21/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	10/31/2024	0.5	<0.050	<0.300	<10.0	155	25.7	155	181	4,880
BH02A	11/21/2024	3	<0.050	<0.300	<10.0	45.7	<10.0	45.7	45.7	224
SS03	10/31/2024	0.5	<0.050	<0.300	<10.0	1,420	289	1,420	1,709	3,480
BH03A	11/21/2024	1	<0.050	<0.300	<10.0	42.8	<10.0	42.8	42.8	208
SS04	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,600
BH04A	11/21/2024	2	<0.050	<0.300	<10.0	38.5	<10.0	38.5	38.5	96.0
SS05	10/31/2024	0.5	<0.050	<0.300	<10.0	122	16.1	122	138	2,040
BH05A	11/21/2024	2	<0.050	<0.300	<10.0	3,090	666	3,090	3,756	144
SS06	10/31/2024	0.5	<0.050	2.53	320	4,590	588	4,910	5,498	2,400
BH06A	11/21/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH06B	11/21/2024	5	<0.050	<0.300	<10.0	31.5	<10.0	31.5	31.5	112
SS07	10/31/2024	0.5	<0.050	<0.300	<10.0	226	55.1	226	281	2,200
BH07A	11/21/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SS08	10/31/2024	0.5	<0.050	<0.300	<10.0	608	113	608	721	3,040
BH08A	11/21/2024	4	<0.050	<0.300	<10.0	151	25.8	151	177	64.0
BH08B	11/21/2024	6	<0.050	<0.300	<10.0	16.0	<10.0	16.0	16.0	48.0
BH08C	11/21/2024	9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS09	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS10	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS11	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS12	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS13	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS14	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Confirmation Floor Soil Samples										
FS01	03/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS02	02/19/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS03	03/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176



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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
FS04	03/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS05	02/19/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS06	02/19/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS07	02/19/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS08	02/19/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS09	02/19/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS10	02/19/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS11	02/19/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS12	02/19/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS13	03/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS14	03/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS15	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS16	03/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS17	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS18	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS19	02/25/2025	2	<0.050	<0.300	<10.0	10.5	<10.0	10.5	10.5	160
FS20	03/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS21	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS22	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS23	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS24	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS25	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS26	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS27	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS28	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS29	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS30	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS31	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS32	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS33	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0



TABLE 1
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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
FS34	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS35	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS36	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS37	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS38	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS39	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS40	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS41	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS42	02/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS43	02/26/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS44	02/26/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS45	03/17/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS46	02/26/2025	2	<0.050	<0.300	<10.0	15.6	<10.0	15.6	15.6	288
FS47	02/26/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS48	02/26/2025	2	<0.050	<0.300	<10.0	10.4	<10.0	10.4	10.4	288
FS49	02/26/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS50	02/26/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS51	02/26/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS52	02/26/2025	2	<0.050	<0.300	<10.0	24.0	<10.0	24.0	24.0	400
FS53	02/26/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS54	02/26/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS55	02/26/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS56	02/26/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS57	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS58	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS59	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS60	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS61	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS62	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS63	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0



TABLE 1
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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
FS64	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS65	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS66	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS67	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS68	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS69	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS70	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS71	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS72	03/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS73	02/26/2025	2	<0.050	<0.300	<10.0	34.0	<10.0	34.0	34.0	320
FS73A	03/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS74	02/26/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS75	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS76	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS77	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS78	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS79	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS80	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS81	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS82	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS83	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS84	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS85	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS86	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS87	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS88	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS89	03/03/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS90	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS91	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS92	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
ROW 5 West Booster Station
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS93	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS94	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS95	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS96	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS97	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS98	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS99	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS100	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS101	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS102	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS103	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS104	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS105	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS106	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS107	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS108	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS109	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS110	03/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS111	03/11/2025	1	<0.050	<0.300	<10.0	11.6	<10.0	11.6	11.6	160
FS112	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS113	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS114	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS115	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS116	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS117	03/11/2025	1	<0.050	<0.300	<10.0	46.4	<10.0	46.4	46.4	256
FS118	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS119	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS120	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS121	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS122	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0



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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
FS123	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS124	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS125	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS126	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS127	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS128	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS129	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
FS130	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS131	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS132	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS133	03/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS134	03/13/2025	1	<0.050	<0.300	<10.0	30.6	<10.0	30.6	30.6	352
FS135	03/13/2025	1	<0.050	<0.300	<10.0	11.6	<10.0	11.6	11.6	176
FS136	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS137	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS138	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS139	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS140	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS141	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS142	03/13/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS143	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS144	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS145	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS146	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS147	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS148	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS149	03/13/2025	1	<0.050	<0.300	<10.0	22.7	<10.0	22.7	22.7	304
FS150	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS151	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS152	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0



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 ROW 5 West Booster Station
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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
FS153	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS154	03/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS155	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS156	03/17/2025	1	<0.050	<0.300	<10.0	14.1	<10.0	14.1	14.1	80.0
FS157	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS158	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS159	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS160	03/17/2025	1	<0.050	<0.300	<10.0	22.0	<10.0	22.0	22.0	112
FS161	03/17/2025	1	<0.050	<0.300	<10.0	14.1	<10.0	14.1	14.1	144
FS162	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS163	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS164	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS165	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS166	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS167	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS168	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS169	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS170	03/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS171	03/24/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS172	03/24/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS173	03/24/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
FS174	03/24/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS175	03/24/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS176	03/24/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS177	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS178	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS179	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS180	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS181	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS182	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240



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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS183	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS184	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS185	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS186	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS187	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS188	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS189	03/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS190	03/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS191	03/21/2025	4	<0.050	<0.300	<10.0	55.5	<10.0	55.5	55.5	896
FS191A	04/28/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS192	03/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS193	03/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS194	03/21/2025	4	<0.050	<0.300	<10.0	69.1	<10.0	69.1	69.1	1,020
FS194	05/21/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS195	03/21/2025	4	<0.050	<0.300	<10.0	426	65.5	426	492	1,490
FS195A	04/28/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS196	03/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS197	03/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS198	03/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS199	03/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS200	03/21/2025	4	<0.050	<0.300	<10.0	96.4	<10.0	96.4	96.4	1,100
FS200A	04/28/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS201	03/21/2025	2	<0.050	<0.300	<10.0	1,120	184	1,120	1,304	3,240
FS201	05/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS202	03/21/2025	2	<0.050	<0.300	<10.0	74.5	14.4	74.5	88.9	2,040
FS202	05/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS203	03/21/2025	2	<0.050	<0.300	<10.0	202	22.2	202	224	1,840
FS203A	04/28/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS204	03/21/2025	2	<0.050	<0.300	<10.0	92.7	13.0	92.7	106	1,960
FS204	05/29/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
ROW 5 West Booster Station
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS205	03/24/2025	2	<0.050	<0.300	<10.0	784	479	784	963	1,800
FS205A	04/28/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS206	03/24/2025	2	<0.050	<0.300	<10.0	863	495	863	1,058	2,120
FS206A	04/28/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS207	03/24/2025	2	<0.050	<0.300	<10.0	564	428	564	689	1,880
FS207	05/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS208	03/24/2025	2	<0.050	<0.300	<10.0	574	427	574	704	2,160
FS208A	04/28/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Confirmation Sidewall Soil Samples										
SW01	02/26/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW01	03/06/2025	2-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW02	02/20/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW03	02/20/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW04	03/03/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW05	03/03/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW06	03/03/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW07	03/24/2025	0-1	<0.050	<0.300	<10.0	19.0	<10.0	19.0	19.0	144
SW08	03/17/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW09	03/17/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW10	03/17/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW11	03/24/2025	0-2	<0.050	<0.300	<10.0	357	87.3	357	444	2,050
SW11	05/21/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

BLM Land Access Approval

Well Name: POKER LAKE UNIT 20-8 BD	Well Location: T25S / R30E / SEC 20 / NESW / 32.112273 / -103.905919	County or Parish/State: EDDY / NM
Well Number: 103H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC064894	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001553238	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2820858

Type of Submission: Notice of Intent Type of Action: Other

Date Sundry Submitted: 11/05/2024 Time Sundry Submitted: 11:05

Date proposed operation will begin: 12/02/2024

Procedure Description: XTO Permian Operating LLC., (XTO) respectfully requests access to an off-pad area located approximately 0.12 miles northwest of the Poker Lake Unit 20 8 BD #103H well pad location in order to complete remediation activities related to a release (Incident Number NAPP2428259758) which occurred on October 10, 2024. The release occurred on a right-of-way (ROW) at GPS 32.1142303, -103.9071374 and flowed into the adjacent pasture area. Excavation of impacted soil is needed utilizing heavy equipment (backhoe, trackhoe, front loader, and hydrovacuum truck). After successful completion of remediation efforts, the disturbed areas will be backfilled with topsoil purchased locally and re-contoured to match pre-existing site conditions and re-seeded with the recommended BLM seed mixture. Please see the attached Site Maps.

Surface Disturbance

Is any additional surface disturbance proposed?: Yes

Proposed Disturbance(acres): 9.51 Interim Reclamation (acres): 0.0 Long Term Disturbance (acres): 0.0

Surface Disturbance:

NOI Attachments

- Surface Disturbance
- PLU_20_8_BD_103H__Row_5_Sub_Station_Site_Map_20241105105947.pdf
 - XTO_ROW_5_West_Sub_Station_Site_Map_20241105105843.pdf

Received by OCD: 7/8/2025 12:00:26 AM

Page 20 of 376

Well Name: POKER LAKE UNIT 20-8 BD	Well Location: T25S / R30E / SEC 20 / NESW / 32.112273 / -103.905919	County or Parish/State: EDDY / NM
Well Number: 103H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC064894	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001553238	Operator: XTO PERMIAN OPERATING LLC	

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SHERRY MORROW	Signed on: NOV 05, 2024 11:01 AM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 6401 HOLIDAY HILL ROAD BLDG 5	
City: MIDLAND	State: TX
Phone: (432) 218-3671	
Email address: SHERRY.MORROW@EXXONMOBIL.COM	

Field


Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CRISHA A MORGAN	BLM POC Title: Environmental Protection Specialist
BLM POC Phone: 5752345987	BLM POC Email Address: camorgan@blm.gov
Disposition: Approved	Disposition Date: 12/06/2024
Signature: CRISHA A. MORGAN	

PLU 20 8 BD 103H

Legend

 NULL

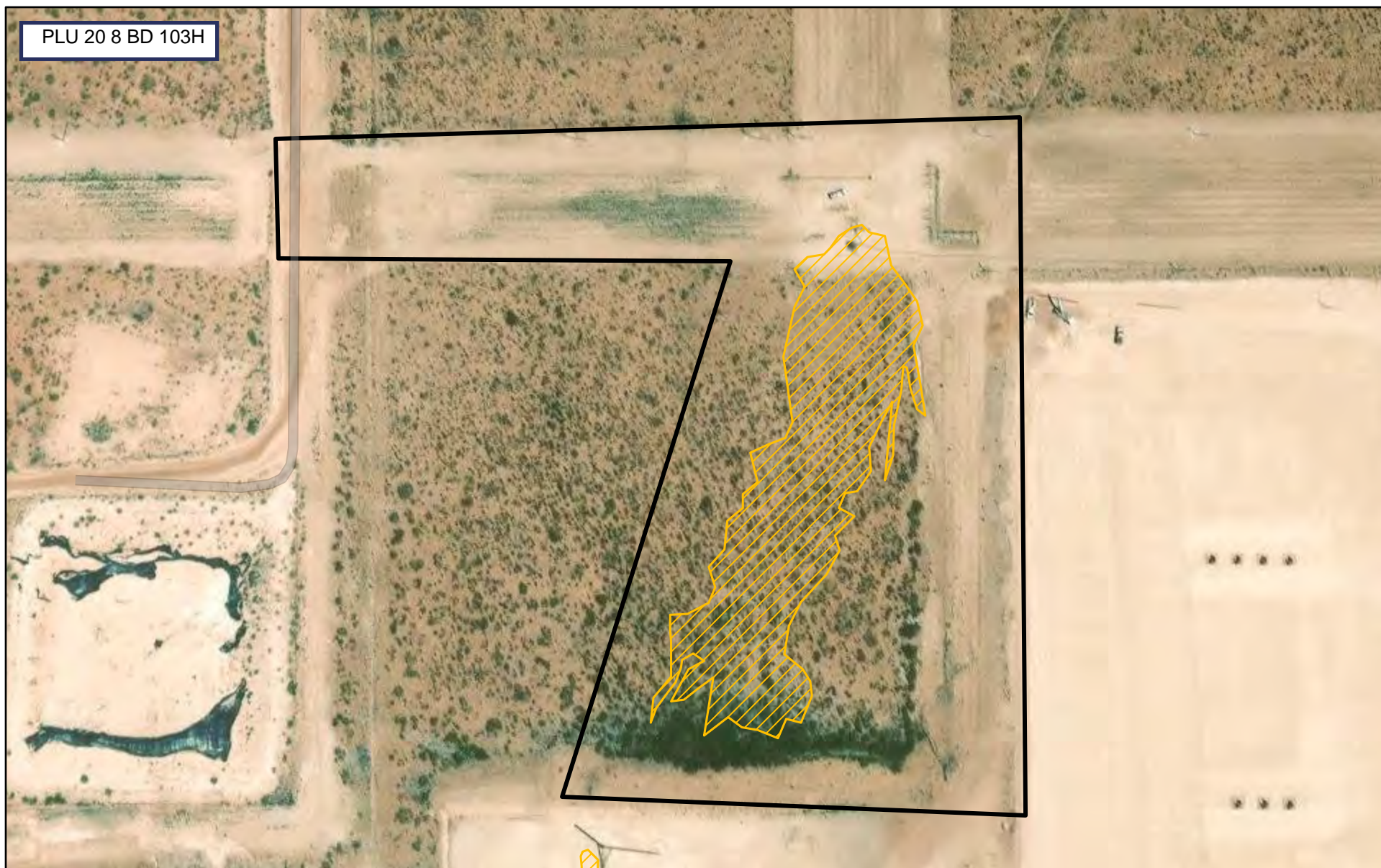


Google Earth





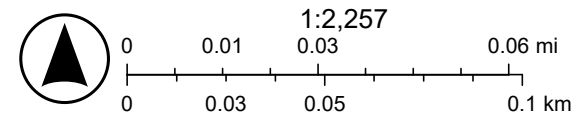
900 ft

Figure 1: ROW 5 West Sub Station - BLM Requested Area of Disturbance



LEGEND

-  Requested Area of Disturbance
-  Release Extent



Maxar, Microsoft, Esri Community Maps Contributors, Texas Parks & Wildlife,
© OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph,



APPENDIX B

Photographic Log

**Photographic Log**

XTO Energy, Inc.
Row 5 West Booster Station
nAPP2428259758



Photograph: 1 Date: 2/17/2025
Description: Area near SW01, FS01, FS02, FS03
View: Southwest



Photograph: 2 Date: 2/20/2025
Description: Area near FS11, FS30, FS31, FS27, FS26,
FS10, FS07, FS06, SW02, SW03
View: Southwest



Photograph: 3 Date: 2/25/2025
Description: Excavation near SW02, FS04, FS17,
FS16, FS15, FS22, FS21
View: North



Photograph: 4 Date: 2/26/2025
Description: Sampling near FS61, FS57, FS58, FS59
FS178, FS72 FS55
View: Southwest

**Photographic Log**

XTO Energy, Inc.

Row 5 West Booster Station

nAPP2428259758



Photograph: 5 Date: 2/28/2025

Description: Hydro excavation near FS208, FS206

View: West



Photograph: 6 Date: 3/05/2025

Description: Excavation near FS122, FS123, FS111, SW06

View: South



Photograph: 7 Date: 3/12/2025

Description: Sampling near FS146, FS145, FS151, FS150, FS147, FS148, FS154, FS153, SW07

View: Southwest



Photograph: 8 Date: 3/13/2025

Description: Hydro excavation near FS201, FS205, FS203

View: East

**Photographic Log**

XTO Energy, Inc.

Row 5 West Booster Station

nAPP2428259758



Photograph: 9 Date: 4/17/2025
 Description: Excavation near SW01, FS01, FS02, FS03, FS04, FS13, FS14, FS15
 View: West



Photograph: 10 Date: 4/28/2025
 Description: Excavation near FS198, FS 197, FS208, FS207, FS194
 View: South



Photograph: 11 Date: 5/21/2025
 Description: Sampling near FS201
 View: East



Photograph: 12 Date: 5/29/2025
 Description: Sampling near FS204
 View: Southwest



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

February 27, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

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

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

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/25/2025
Reported: 02/27/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 02 2' (H251107-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2025	ND	1.86	92.8	2.00	0.0724	
Toluene*	<0.050	0.050	02/26/2025	ND	2.07	104	2.00	0.678	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	2.14	107	2.00	0.752	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.56	109	6.00	1.22	
Total BTEx	<0.300	0.300	02/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	128	16.0	02/26/2025	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	02/26/2025	ND	224	112	200	4.81	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	215	108	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/25/2025
Reported: 02/27/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 05 2' (H251107-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2025	ND	1.86	92.8	2.00	0.0724	
Toluene*	<0.050	0.050	02/26/2025	ND	2.07	104	2.00	0.678	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	2.14	107	2.00	0.752	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.56	109	6.00	1.22	
Total BTX	<0.300	0.300	02/26/2025	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	32.0	16.0	02/26/2025	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	02/26/2025	ND	224	112	200	4.81	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	215	108	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/25/2025
Reported: 02/27/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 06 2' (H251107-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2025	ND	1.86	92.8	2.00	0.0724	
Toluene*	<0.050	0.050	02/26/2025	ND	2.07	104	2.00	0.678	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	2.14	107	2.00	0.752	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.56	109	6.00	1.22	
Total BTX	<0.300	0.300	02/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	02/26/2025	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	02/26/2025	ND	224	112	200	4.81	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	215	108	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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*=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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/25/2025
Reported: 02/27/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 07 2' (H251107-04)

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	02/26/2025	ND	1.86	92.8	2.00	0.0724		
Toluene*	<0.050	0.050	02/26/2025	ND	2.07	104	2.00	0.678		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	2.14	107	2.00	0.752		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.56	109	6.00	1.22		
Total BTEx	<0.300	0.300	02/26/2025	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	144	16.0	02/26/2025	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	02/26/2025	ND	224	112	200	4.81	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	215	108	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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*=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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/25/2025
Reported: 02/27/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 08 2' (H251107-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2025	ND	1.86	92.8	2.00	0.0724		
Toluene*	<0.050	0.050	02/26/2025	ND	2.07	104	2.00	0.678		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	2.14	107	2.00	0.752		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.56	109	6.00	1.22		
Total BTX	<0.300	0.300	02/26/2025	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	192	16.0	02/26/2025	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	02/26/2025	ND	224	112	200	4.81	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	215	108	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/25/2025
Reported: 02/27/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 09 2' (H251107-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2025	ND	1.86	92.8	2.00	0.0724	
Toluene*	<0.050	0.050	02/26/2025	ND	2.07	104	2.00	0.678	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	2.14	107	2.00	0.752	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.56	109	6.00	1.22	
Total BTX	<0.300	0.300	02/26/2025	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	96.0	16.0	02/26/2025	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	02/26/2025	ND	224	112	200	4.81	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	215	108	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/25/2025
Reported: 02/27/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 10 2' (H251107-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2025	ND	1.86	92.8	2.00	0.0724		
Toluene*	<0.050	0.050	02/26/2025	ND	2.07	104	2.00	0.678		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	2.14	107	2.00	0.752		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.56	109	6.00	1.22		
Total BTX	<0.300	0.300	02/26/2025	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	64.0	16.0	02/26/2025	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	02/26/2025	ND	224	112	200	4.81	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	215	108	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/25/2025
Reported: 02/27/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 11 2' (H251107-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2025	ND	1.86	92.8	2.00	0.0724		
Toluene*	<0.050	0.050	02/26/2025	ND	2.07	104	2.00	0.678		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	2.14	107	2.00	0.752		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.56	109	6.00	1.22		
Total BTX	<0.300	0.300	02/26/2025	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	224	16.0	02/26/2025	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	02/26/2025	ND	224	112	200	4.81	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	215	108	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/25/2025
Reported: 02/27/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 12 2' (H251107-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2025	ND	1.86	92.8	2.00	0.0724		
Toluene*	<0.050	0.050	02/26/2025	ND	2.07	104	2.00	0.678		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	2.14	107	2.00	0.752		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.56	109	6.00	1.22		
Total BTX	<0.300	0.300	02/26/2025	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	368	16.0	02/26/2025	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	02/26/2025	ND	224	112	200	4.81	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	215	108	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 05, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 02/27/25 14:00.

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

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 15 2' (H251178-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	5.54	
Toluene*	<0.050	0.050	03/03/2025	ND	2.18	109	2.00	6.90	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.27	113	2.00	8.70	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	7.04	117	6.00	9.29	
Total BTX	<0.300	0.300	03/03/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 95.8 % 71.8-148

Surrogate: 1-Chlorooctadecane 95.9 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 17 2' (H251178-02)

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	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTEx	<0.300	0.300	03/03/2025	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	32.0	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 71.8-148

Surrogate: 1-Chlorooctadecane 86.4 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 18 2' (H251178-03)

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	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTEx	<0.300	0.300	03/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 103 % 71.8-148

Surrogate: 1-Chlorooctadecane 102 % 63.9-155

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 19 2' (H251178-04)

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	03/03/2025	ND	2.03	101	2.00	2.75	
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41	
Total BTEx	<0.300	0.300	03/03/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	10.5	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 103 % 71.8-148

Surrogate: 1-Chlorooctadecane 100 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 21 2' (H251178-05)

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	03/03/2025	ND	2.03	101	2.00	2.75	
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41	
Total BTEx	<0.300	0.300	03/03/2025	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	304	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 98.3 % 71.8-148

Surrogate: 1-Chlorooctadecane 95.7 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 22 2' (H251178-06)

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	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTEX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 101 % 71.8-148

Surrogate: 1-Chlorooctadecane 96.7 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 23 2' (H251178-07)

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	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTEx	<0.300	0.300	03/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	96.0	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 81.2 % 71.8-148

Surrogate: 1-Chlorooctadecane 79.2 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 24 2' (H251178-08)

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	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTEX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 96.0 % 71.8-148

Surrogate: 1-Chlorooctadecane 93.1 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 25 2' (H251178-09)

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	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTEx	<0.300	0.300	03/03/2025	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	160	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 71.8-148

Surrogate: 1-Chlorooctadecane 92.2 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 26 2' (H251178-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 102 % 71.8-148

Surrogate: 1-Chlorooctadecane 103 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 27 2' (H251178-11)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTX	<0.300	0.300	03/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 107 % 71.8-148

Surrogate: 1-Chlorooctadecane 108 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 28 2' (H251178-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/03/2025	ND	416	104	400	0.00	QR-03

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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 107 % 71.8-148

Surrogate: 1-Chlorooctadecane 109 % 63.9-155

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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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 29 2' (H251178-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 102 % 71.8-148

Surrogate: 1-Chlorooctadecane 98.3 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 30 2' (H251178-14)

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	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTEX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 102 % 71.8-148

Surrogate: 1-Chlorooctadecane 98.4 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 31 2' (H251178-15)

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	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTEx	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 102 % 71.8-148

Surrogate: 1-Chlorooctadecane 98.6 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 32 2' (H251178-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTX	<0.300	0.300	03/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/03/2025	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	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 71.8-148

Surrogate: 1-Chlorooctadecane 94.1 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 33 2' (H251178-17)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/03/2025	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	03/03/2025	ND	203	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	191	95.6	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 80.4 % 71.8-148

Surrogate: 1-Chlorooctadecane 71.4 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 34 2' (H251178-18)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/03/2025	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	03/03/2025	ND	203	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	191	95.6	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 86.5 % 71.8-148

Surrogate: 1-Chlorooctadecane 77.7 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 35 2' (H251178-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/03/2025	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	03/03/2025	ND	203	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	191	95.6	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 71.8-148

Surrogate: 1-Chlorooctadecane 74.8 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 36 2' (H251178-20)

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	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTEx	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/03/2025	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	03/03/2025	ND	203	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	191	95.6	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 102 % 71.8-148

Surrogate: 1-Chlorooctadecane 93.7 % 63.9-155

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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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 37 2' (H251178-21)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	2.03	101	2.00	2.75		
Toluene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	0.577		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.29	114	2.00	1.47		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.95	116	6.00	2.41		
Total BTX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/03/2025	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	03/03/2025	ND	203	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	191	95.6	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 97.8 % 71.8-148

Surrogate: 1-Chlorooctadecane 91.2 % 63.9-155

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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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 38 2' (H251178-22)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2025	ND	1.99	99.6	2.00	0.631	
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199	
Total BTX	<0.300	0.300	03/03/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/03/2025	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	03/03/2025	ND	203	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	191	95.6	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 102 % 71.8-148

Surrogate: 1-Chlorooctadecane 95.3 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 39 2' (H251178-23)

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	03/03/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199		
Total BTEx	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/03/2025	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	03/03/2025	ND	203	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	191	95.6	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 71.8-148

Surrogate: 1-Chlorooctadecane 90.3 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 40 2' (H251178-24)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2025	ND	1.99	99.6	2.00	0.631	
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199	
Total BTX	<0.300	0.300	03/03/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/03/2025	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	03/03/2025	ND	203	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	191	95.6	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 108 % 71.8-148

Surrogate: 1-Chlorooctadecane 101 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 41 2' (H251178-25)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2025	ND	1.99	99.6	2.00	0.631	
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199	
Total BTX	<0.300	0.300	03/03/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/03/2025	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	03/03/2025	ND	203	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	191	95.6	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 101 % 71.8-148

Surrogate: 1-Chlorooctadecane 94.6 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 42 2' (H251178-26)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2025	ND	1.99	99.6	2.00	0.631	
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199	
Total BTX	<0.300	0.300	03/03/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/03/2025	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	03/03/2025	ND	203	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	191	95.6	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 102 % 71.8-148

Surrogate: 1-Chlorooctadecane 96.8 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Jeremy Reich

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: (432) 296-0627

Project #: 03C1558559

Project Name: Row 5 West Sub Station

Project Location: 32.1142303, -103.9071374

Sampler Name: Mario Saitis

P.O. #:

Company: XTO

Attn: Cotton Brown

Address: 3104 E Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #: 575-988-2390

ANALYSIS REQUEST

Address: 3122 National Parks Hwy										P.O. #.										
City: Carlsbad										Company: XTO										
Phone #: (432) 296-0627										Attn: Cotton Brown										
Project #: 03C1558559										Address: 3104 E Green St.										
Project Name: Row 5 West Sub Station										City: Carlsbad										
Project Location: 32.1142303 -103.9071374										State: NM Zip: 88220										
Sampler Name: Mario Sankis										Phone #: 575-988-2390										
FOR USE ONLY										Fax #:										
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX				PRESERV	SAMPLING										
					GROUNDWATER															
					WASTEWATER															
					SOIL															
					OIL															
					SLUDGE															
					OTHER															
					ACID/BASE															
					ICE / COOL															
					OTHER															
										DATE	TIME	BTEX	TPH	Chlorides						
HS1178	1515	2		1						2/29/08	1006	✓	✓	✓						
	1517	2		1							1008	✓	✓	✓						
	1518	2		1							1015	✓	✓	✓						
	1519	2		1							1004	✓	✓	✓						
	1521	2		1							1011	✓	✓	✓						
	1522	2		1							1024	✓	✓	✓						
	1523	2		1							1013	✓	✓	✓						
	1524	2		1							1027	✓	✓	✓						
	1525	2		1							1015	✓	✓	✓						
	1526	2		1							1028	✓	✓	✓						

PLEASE NOTE: Safety and Design: Contractor shall not directly contact trench to any other existing utilities located in vicinity of job. Prior to the start of the project, the contractor shall obtain all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. 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The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.

PLEASE NOTE: Safety and Compliance. Containers must be properly labeled and sealed. All samples must be properly labeled and sealed. All samples must be properly labeled and sealed.

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

Relinquished By: [Signature] Date: 2/29/08 Time: 1400 Received By: [Signature]

Delivered By: (Circle One) UPS 3.1 Sample Condition Good Checked By: [Signature]

Sampler - UPS - Bus - Other: 3.4 Corrected Temp. °C: 3.4 Sample Condition Good Checked By: [Signature]

Turnaround Time: Standard Bacteria (only) Sample Condition Good Corrected Temp. °C: 3.4

Remarks: Incident # 2234991081 Cost Center 2234991081



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

March 05, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 02/27/25 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 43 2 (H251179-01)

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	03/03/2025	ND	1.99	99.6	2.00	0.631	
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199	
Total BTEX	<0.300	0.300	03/03/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 71.8-148

Surrogate: 1-Chlorooctadecane 91.1 % 63.9-155

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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 44 2 (H251179-02)

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	03/03/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199		
Total BTEx	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 71.8-148

Surrogate: 1-Chlorooctadecane 93.2 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 46 2 (H251179-03)

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	03/03/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199		
Total BTEx	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	15.6	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 83.1 % 71.8-148

Surrogate: 1-Chlorooctadecane 83.6 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 47 2 (H251179-04)

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	03/03/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199		
Total BTEX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 92.9 % 71.8-148

Surrogate: 1-Chlorooctadecane 93.2 % 63.9-155

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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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 48 2 (H251179-05)

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	03/03/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199		
Total BTEx	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	10.4	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 71.8-148

Surrogate: 1-Chlorooctadecane 89.0 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 49 2 (H251179-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199		
Total BTX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 71.8-148

Surrogate: 1-Chlorooctadecane 93.1 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 50 2 (H251179-07)

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	03/03/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199		
Total BTEX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 74.0 % 71.8-148

Surrogate: 1-Chlorooctadecane 73.5 % 63.9-155

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 51 2 (H251179-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199		
Total BTX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 93.7 % 71.8-148

Surrogate: 1-Chlorooctadecane 94.1 % 63.9-155

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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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 52 2 (H251179-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199		
Total BTX	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	24.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 81.0 % 71.8-148

Surrogate: 1-Chlorooctadecane 81.7 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 53 2 (H251179-10)

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	03/03/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/03/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.50	108	6.00	0.199		
Total BTEx	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 85.8 % 71.8-148

Surrogate: 1-Chlorooctadecane 84.4 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 54 2 (H251179-11)

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	03/04/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/04/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.50	108	6.00	0.199		
Total BTEx	<0.300	0.300	03/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 89.6 % 71.8-148

Surrogate: 1-Chlorooctadecane 89.9 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 55 2 (H251179-12)

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	03/04/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/04/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.50	108	6.00	0.199		
Total BTEx	<0.300	0.300	03/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 90.5 % 71.8-148

Surrogate: 1-Chlorooctadecane 90.3 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 56 2 (H251179-13)

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	03/04/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/04/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.50	108	6.00	0.199		
Total BTEx	<0.300	0.300	03/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 79.2 % 71.8-148

Surrogate: 1-Chlorooctadecane 77.9 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 57 1 (H251179-14)

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	03/04/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/04/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.50	108	6.00	0.199		
Total BTEx	<0.300	0.300	03/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 71.8-148

Surrogate: 1-Chlorooctadecane 92.2 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 58 1 (H251179-15)

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	03/04/2025	ND	1.99	99.6	2.00	0.631		
Toluene*	<0.050	0.050	03/04/2025	ND	2.08	104	2.00	0.692		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.10	105	2.00	0.270		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.50	108	6.00	0.199		
Total BTEx	<0.300	0.300	03/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 78.7 % 71.8-148

Surrogate: 1-Chlorooctadecane 79.4 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 59 1 (H251179-16)

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	03/03/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/03/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.87	114	6.00	2.83		
Total BTEx	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/03/2025	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	03/03/2025	ND	209	104	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	201	101	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 71.8-148

Surrogate: 1-Chlorooctadecane 96.6 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 60 1 (H251179-17)

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	03/03/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/03/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.87	114	6.00	2.83		
Total BTEx	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 104 % 71.8-148

Surrogate: 1-Chlorooctadecane 103 % 63.9-155

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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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 61 1 (H251179-18)

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	03/03/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/03/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	6.87	114	6.00	2.83		
Total BTEx	<0.300	0.300	03/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 105 % 71.8-148

Surrogate: 1-Chlorooctadecane 104 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 62 1 (H251179-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTX	<0.300	0.300	03/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 111 % 71.8-148

Surrogate: 1-Chlorooctadecane 110 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 63 1 (H251179-20)

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	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTEx	<0.300	0.300	03/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 71.8-148

Surrogate: 1-Chlorooctadecane 89.0 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 64 1 (H251179-21)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTX	<0.300	0.300	03/04/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 99.0 % 71.8-148

Surrogate: 1-Chlorooctadecane 95.8 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 65 1 (H251179-22)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTX	<0.300	0.300	03/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 99.1 % 71.8-148

Surrogate: 1-Chlorooctadecane 95.4 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 66 1 (H251179-23)

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	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTEx	<0.300	0.300	03/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 111 % 71.8-148

Surrogate: 1-Chlorooctadecane 108 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 67 1 (H251179-24)

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	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTEx	<0.300	0.300	03/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 103 % 71.8-148

Surrogate: 1-Chlorooctadecane 102 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 68 1 (H251179-25)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTX	<0.300	0.300	03/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 71.8-148

Surrogate: 1-Chlorooctadecane 97.4 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 69 1 (H251179-26)

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	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTEx	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 71.8-148

Surrogate: 1-Chlorooctadecane 98.0 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 70 1 (H251179-27)

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	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTEx	<0.300	0.300	03/04/2025	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	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 78.0 % 71.8-148

Surrogate: 1-Chlorooctadecane 76.1 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 73 2 (H251179-28)

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	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTEx	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	320	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	34.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 107 % 71.8-148

Surrogate: 1-Chlorooctadecane 105 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 74 1 (H251179-29)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTX	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 107 % 71.8-148

Surrogate: 1-Chlorooctadecane 105 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 01 0-2 (H251179-30)

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	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTEX	<0.300	0.300	03/04/2025	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	32.0	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 112 % 71.8-148

Surrogate: 1-Chlorooctadecane 111 % 63.9-155

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 02 0-2 (H251179-31)

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	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTEx	<0.300	0.300	03/04/2025	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	16.0	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 113 % 71.8-148

Surrogate: 1-Chlorooctadecane 111 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 03 0-2 (H251179-32)

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	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTEx	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 117 % 71.8-148

Surrogate: 1-Chlorooctadecane 114 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/27/2025
Reported: 03/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 02/26/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 71 1 (H251179-33)

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	03/04/2025	ND	1.93	96.4	2.00	1.80		
Toluene*	<0.050	0.050	03/04/2025	ND	2.21	110	2.00	2.10		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.25	112	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.87	114	6.00	2.83		
Total BTEx	<0.300	0.300	03/04/2025	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	16.0	16.0	03/03/2025	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	03/03/2025	ND	217	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	208	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 98.3 % 71.8-148

Surrogate: 1-Chlorooctadecane 96.2 % 63.9-155

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Notes and Definitions

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

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4301

† Cardinal cannot accept verbal changes. Please email changes to celoy.keene@cardinalsafb.mil.



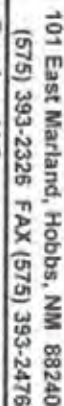
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 4

[illegible]

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Released to Imaging: 8/21/2025 2:44:09 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3064

[illegible]

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 06, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 03/04/25 14:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 04 0-2 (H251279-01)

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	03/05/2025	ND	1.88	94.1	2.00	4.34	
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08	
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17	
Total BTEX	<0.300	0.300	03/05/2025	ND					

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	32.0	16.0	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.7 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 05 0-2 (H251279-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 06 0-1 (H251279-03)

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	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTEx	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 75 1 (H251279-04)

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	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 76 1 (H251279-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2025	ND	1.88	94.1	2.00	4.34	
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08	
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17	
Total BTX	<0.300	0.300	03/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 70.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.9 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 77 1 (H251279-06)

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	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 66.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.9 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 78 1 (H251279-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 79 1 (H251279-08)

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	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTEx	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.3 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 80 3 (H251279-09)

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	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 81 1 (H251279-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 73.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 82 1 (H251279-11)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 59.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 58.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 83 1 (H251279-12)

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	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTEx	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.2 % 40.6-153

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 84 1 (H251279-13)

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	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTEx	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	144	16.0	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 72.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.6 % 40.6-153

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 85 1 (H251279-14)

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	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTEx	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	16.0	16.0	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 86 1 (H251279-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 74.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 87 1 (H251279-16)

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	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTEx	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 77.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.6 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 88 1 (H251279-17)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2025	ND	1.88	94.1	2.00	4.34	
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75	
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08	
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17	
Total BTX	<0.300	0.300	03/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 77.2 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/04/2025
Reported: 03/06/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 89 1 (H251279-18)

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	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTEx	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	64.0	16.0	03/05/2025	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	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

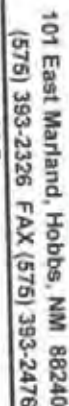
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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible][illegible]† Cardinal cannot accept verbal changes. Please email changes to cardinal@cardinal.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

206

Company Name: Ensolum, LLC	BILL TO		ANALYSIS REQUEST			
----------------------------	----------------	--	-------------------------	--	--	--

Project Manager: Jeremy Reich	P.O. #:				
-------------------------------	---------	--	--	--	--

Address: 3122 National Parks Hwy	Company: XTO				
----------------------------------	--------------	--	--	--	--

City: Carlsbad	Attn: Colton Brown				
----------------	--------------------	--	--	--	--

State: NM Zip: 88220	Address: 3104 E Green St.				
----------------------	---------------------------	--	--	--	--

Phone #: (432) 296-0627 Fax #:	City: Carlsbad				
--------------------------------	----------------	--	--	--	--

Project #: 03C1558559 Project Owner:	State: NM Zip: 88220				
--------------------------------------	----------------------	--	--	--	--

Project Name: Row 5 West Sub Station	Phone #: 575-988-2390				
--------------------------------------	-----------------------	--	--	--	--

Project Location: 32.1142303, -103.9071374	Fax #:				
--	--------	--	--	--	--

Sampler Name: Mario Sarkis					
----------------------------	--	--	--	--	--

FOR LAB USE ONLY									
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE
					OTHER :	ACID/BASE:	ICE / COOL	OTHER :	
					DATE	TIME	BTEX	TPH	Chlorides
4351329	F582	1	✓	1	3/3/25	1030	✓	✓	✓
11	F583	1	✓	1		1033	✓	✓	✓
12	F584	1	✓	1		1036	✓	✓	✓
13	F585	1	✓	1		1039	✓	✓	✓
14	F586	1	✓	1		1044	✓	✓	✓
15	F587	1	✓	1		1048	✓	✓	✓
16	F588	1	✓	1		1051	✓	✓	✓
17	F589	1	✓	1		1054	✓	✓	✓

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Relinquished By:	Date: 3.4.25	Received By: Speedriguey	Time: 1405
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Relinquished By:	Date:	Received By:	Time:
------------------	-------	--------------	-------

Delivered By: (Circle One)	Observed Temp. °C: 1.2	Sample Condition	CHECKED BY: (Initials)
----------------------------	------------------------	------------------	------------------------

Sampler - UPS - Bus - Other:	Corrected Temp. °C: 0.9	Cool Intact	Yes
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Thermometer ID: 4413	Standard	Bacteria (only)	Sample Condition
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Correction Factor: 0.5°C	Rush	Cool Intact	Observed Temp. °C
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Turnaround Time: 48 hr	Cost Center: 2234991001	Remarks: Incident # nAPP2428259758	Verbal Result: Yes
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Remarks: Incident # nAPP2428259758	Cost Center: 2234991001	Remarks: Incident # nAPP2428259758	Verbal Result: Yes
------------------------------------	-------------------------	------------------------------------	--------------------

Remarks: Incident # nAPP2428259758	Cost Center: 2234991001	Remarks: Incident # nAPP2428259758	Verbal Result: Yes
------------------------------------	-------------------------	------------------------------------	--------------------

Remarks: Incident # nAPP2428259758	Cost Center: 2234991001	Remarks: Incident # nAPP2428259758	Verbal Result: Yes
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 10, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 03/06/25 14:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 90 1' (H251327-01)

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	03/07/2025	ND	1.92	95.8	2.00	2.31	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823	
Total BTEX	<0.300	0.300	03/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 99.5 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 91 1' (H251327-02)

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	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTEx	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 92 1' (H251327-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTX	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.9 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 93 1' (H251327-04)

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	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTEx	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	160	16.0	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.3 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 94 1' (H251327-05)

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	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTEx	<0.300	0.300	03/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 105 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 95 1' (H251327-06)

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	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTEx	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	144	16.0	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 96 1' (H251327-07)

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	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTEx	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 108 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 97 1' (H251327-08)

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	03/07/2025	ND	1.92	95.8	2.00	2.31	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823	
Total BTEX	<0.300	0.300	03/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	288	16.0	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 98 1' (H251327-09)

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	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTEX	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	256	16.0	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 99 1' (H251327-10)

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	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTEX	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 100 1' (H251327-11)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTX	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 118 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 101 1' (H251327-12)

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	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTEx	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	144	16.0	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 102 1' (H251327-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTX	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 103 1' (H251327-14)

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	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTEx	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	176	16.0	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 118 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 104 1' (H251327-15)

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	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTEx	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 105 1' (H251327-16)

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	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTEx	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	96.0	16.0	03/07/2025	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	03/07/2025	ND	198	99.0	200	4.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	194	97.1	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 106 1' (H251327-17)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTX	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/07/2025	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	03/07/2025	ND	204	102	200	0.426	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	202	101	200	0.0752	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 107 1' (H251327-18)

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	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTEx	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	32.0	16.0	03/07/2025	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	03/07/2025	ND	204	102	200	0.426	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	202	101	200	0.0752	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 122 % 44.4-145

Surrogate: 1-Chlorooctadecane 121 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 108 1' (H251327-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.92	95.8	2.00	2.31		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	1.53		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.01	101	2.00	0.881		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	5.94	98.9	6.00	0.823		
Total BTX	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	80.0	16.0	03/07/2025	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	03/07/2025	ND	204	102	200	0.426	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	202	101	200	0.0752	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 109 1' (H251327-20)

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	03/07/2025	ND	1.93	96.5	2.00	0.603		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32		
Total BTEx	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	03/07/2025	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	03/07/2025	ND	204	102	200	0.426	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	202	101	200	0.0752	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/06/2025
Reported: 03/10/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 110 1' (H251327-21)

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	03/07/2025	ND	1.93	96.5	2.00	0.603		
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32		
Total BTEx	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	128	16.0	03/07/2025	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	03/07/2025	ND	204	102	200	0.426	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	202	101	200	0.0752	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.4 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1063

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Jeremy Reich				P.O. #:															
Address: 3122 National Parks Hwy				Company: XTO															
City: Carlsbad				Attn: Colton Brown															
State: NM Zip: 88220				Address: 3104 E Green St.															
Phone #: (432) 296-0627 Fax #:				City: Carlsbad															
Project #: 03C1558559 Project Owner:				State: NM Zip: 88220															
Project Name: Row 5 West Sub Station				Phone #: 575-988-2390															
Project Location: 32.1142303, -103.9071374				Fax #:															
Sampler Name: Mario Sarkis																			
<small>FOR LAB USE ONLY</small>																			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	BTEX	TPH	Chlorides							
HS1321	F540	1	✓	1	✓	✓	✓	0911	3/5/25	✓	✓	✓							
	F541	1	✓	1	✓	✓	✓	0930		✓	✓	✓							
	F542	1	✓	1	✓	✓	✓	0935		✓	✓	✓							
	F543	1	✓	1	✓	✓	✓	0930		✓	✓	✓							
	F544	1	✓	1	✓	✓	✓	0933		✓	✓	✓							
	F545	1	✓	1	✓	✓	✓	0935		✓	✓	✓							
	F546	1	✓	1	✓	✓	✓	0934		✓	✓	✓							
	F547	1	✓	1	✓	✓	✓	1005		✓	✓	✓							
	F548	1	✓	1	✓	✓	✓	1010		✓	✓	✓							
	F549	1	✓	1	✓	✓	✓	1013		✓	✓	✓							
<small>PLEASE NOTE: Liability and Damages: Cardinal's liability and clients exclusive remedy for any claim arising based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																			
Relinquished By:				Date: 3/5/25	Received By:														
Relinquished By:				Time: 1430	Received By:														
Delivered By: (Circle One)				Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition								
Sampler - UPS - Bus - Other:				Observed Temp. °C	Corrected Temp. °C	Cool Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C	Observed Temp. °C	Corrected Temp. °C							
<small>† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsrmt.com</small>																			



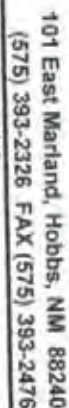
101 East Marland, Hobbs, NM 88240
(575) 383-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: Ensolum, LLC		P.O. #:		BILL TO				ANALYSIS REQUEST											
Project Manager: Jeremy Reich		Company: XTO																	
Address: 3122 National Parks Hwy		Attn: Cotton Brown																	
City: Carlsbad		Address: 3104 E Green St.																	
State: NM Zip: 88220		City: Carlsbad																	
Phone #: (432) 296-0627 Fax #:		State: NM Zip: 88220																	
Project #: 03C1558559 Project Owner:		Phone #: 575-988-2390 Fax #:																	
Project Name: Row 5 West Sub Station																			
Project Location: 32.1142303 -103.9071374																			
Sampler Name: Mario Sarkis																			
Full Value Only																			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	BTEX	TPH	Chlorides							
HS1327	FS100	1		1	GROUNDWATER			3/5/85	1016	✓	✓	✓							
	FS101				WASTEWATER				1018	✓	✓	✓							
	FS102				SOIL				1031	✓	✓	✓							
	FS103				OIL				1034	✓	✓	✓							
	FS104				SLUDGE				1027	✓	✓	✓							
	FS105				OTHER				1030	✓	✓	✓							
	FS106				ACID/BASE				1033	✓	✓	✓							
	FS107				ICE / COOL				1036	✓	✓	✓							
	FS108				OTHER				1040	✓	✓	✓							
	FS109								1043	✓	✓	✓							
	FS104																		
Relinquished By: [Signature]		Date: 3-6-25		Received By: [Signature]		Date: 3-6-25		Time: 4:30		Turnaround Time: 48-72 hrs		Standard		Bacteria (only)		Sample Condition		Observed Temp, °C	
Relinquished By: [Signature]		Date: 3-6-25		Received By: [Signature]		Date: 3-6-25		Time: 4:30		Turnaround Time: 48-72 hrs		Standard		Bacteria (only)		Sample Condition		Observed Temp, °C	
Delivered By: (Circle One)		Desired Temp: 20.4		Sample Condition		CHECKED BY: (Initials)		Turnaround Time: 48-72 hrs		Standard		Bacteria (only)		Sample Condition		Observed Temp, °C		Corrected Temp, °C	
Sampler - UPS - Bus - Other:		Corrected Temp: 20.7		Cool Intact		Yes No		Thermometer ID: 48-145		Standard		Bacteria (only)		Sample Condition		Observed Temp, °C		Corrected Temp, °C	

↑ Cardinal cannot accept verbal changes. Please email changes to celey.keone@cardinallabsnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

308

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

March 11, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 03/07/25 13:58.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/07/2025
Reported: 03/11/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 01 2-4' (H251374-01)

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	03/10/2025	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	03/10/2025	ND	2.12	106	2.00	3.92	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.02	100	6.00	3.70	
Total BTEx	<0.300	0.300	03/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	144	16.0	03/10/2025	ND	400	100	400	7.69		

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	03/08/2025	ND	209	105	200	0.386	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	203	101	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/07/2025
Reported: 03/11/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 01 4' (H251374-02)

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	03/10/2025	ND	2.08	104	2.00	3.75		
Toluene*	<0.050	0.050	03/10/2025	ND	2.12	106	2.00	3.92		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	3.88		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.02	100	6.00	3.70		
Total BTEX	<0.300	0.300	03/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	416	16.0	03/10/2025	ND	400	100	400	7.69	

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	03/08/2025	ND	209	105	200	0.386	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	203	101	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 114 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/07/2025
Reported: 03/11/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 03 4' (H251374-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2025	ND	2.08	104	2.00	3.75		
Toluene*	<0.050	0.050	03/10/2025	ND	2.12	106	2.00	3.92		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	3.88		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.02	100	6.00	3.70		
Total BTX	<0.300	0.300	03/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/10/2025	ND	400	100	400	7.69		

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	03/08/2025	ND	209	105	200	0.386	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	203	101	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/07/2025
Reported: 03/11/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 04 4' (H251374-04)

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	03/10/2025	ND	2.08	104	2.00	3.75		
Toluene*	<0.050	0.050	03/10/2025	ND	2.12	106	2.00	3.92		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	3.88		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.02	100	6.00	3.70		
Total BTEx	<0.300	0.300	03/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 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	240	16.0	03/10/2025	ND	400	100	400	7.69		

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	03/08/2025	ND	209	105	200	0.386	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	203	101	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 115 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/07/2025
Reported: 03/11/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 13 4' (H251374-05)

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	03/10/2025	ND	1.95	97.4	2.00	0.965		
Toluene*	<0.050	0.050	03/10/2025	ND	2.22	111	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.23	111	2.00	0.00597		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.01	117	6.00	0.133		
Total BTEx	<0.300	0.300	03/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/10/2025	ND	400	100	400	7.69		

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	03/08/2025	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	206	103	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 142 % 44.4-145

Surrogate: 1-Chlorooctadecane 147 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/07/2025
Reported: 03/11/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 14 4' (H251374-06)

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	03/10/2025	ND	1.95	97.4	2.00	0.965		
Toluene*	<0.050	0.050	03/10/2025	ND	2.22	111	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.23	111	2.00	0.00597		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.01	117	6.00	0.133		
Total BTEx	<0.300	0.300	03/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	03/10/2025	ND	400	100	400	7.69		

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	03/08/2025	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	206	103	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 135 % 44.4-145

Surrogate: 1-Chlorooctadecane 135 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/07/2025
Reported: 03/11/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 16 4' (H251374-07)

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	03/10/2025	ND	1.95	97.4	2.00	0.965		
Toluene*	<0.050	0.050	03/10/2025	ND	2.22	111	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.23	111	2.00	0.00597		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.01	117	6.00	0.133		
Total BTEx	<0.300	0.300	03/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	160	16.0	03/10/2025	ND	400	100	400	7.69		

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	03/08/2025	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	206	103	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 128 % 44.4-145

Surrogate: 1-Chlorooctadecane 130 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/07/2025
Reported: 03/11/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 20 4' (H251374-08)

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	03/10/2025	ND	1.95	97.4	2.00	0.965		
Toluene*	<0.050	0.050	03/10/2025	ND	2.22	111	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.23	111	2.00	0.00597		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.01	117	6.00	0.133		
Total BTEX	<0.300	0.300	03/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/10/2025	ND	400	100	400	7.69		

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	03/08/2025	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	206	103	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 136 % 44.4-145

Surrogate: 1-Chlorooctadecane 138 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/07/2025
Reported: 03/11/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 72 2' (H251374-09)

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	03/10/2025	ND	1.95	97.4	2.00	0.965		
Toluene*	<0.050	0.050	03/10/2025	ND	2.22	111	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.23	111	2.00	0.00597		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.01	117	6.00	0.133		
Total BTEx	<0.300	0.300	03/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	03/10/2025	ND	400	100	400	7.69		

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	03/08/2025	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	206	103	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 134 % 44.4-145

Surrogate: 1-Chlorooctadecane 136 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/07/2025
Reported: 03/11/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 73 2' (H251374-10)

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	03/10/2025	ND	1.95	97.4	2.00	0.965		
Toluene*	<0.050	0.050	03/10/2025	ND	2.22	111	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.23	111	2.00	0.00597		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.01	117	6.00	0.133		
Total BTEX	<0.300	0.300	03/10/2025	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	336	16.0	03/10/2025	ND	400	100	400	7.69	

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	03/08/2025	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	206	103	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 144 % 44.4-145

Surrogate: 1-Chlorooctadecane 147 % 40.6-153

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Page 13 of 13



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

March 18, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 03/14/25 9:22.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 134 1' (H251528-01)

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	03/17/2025	ND	1.90	94.9	2.00	7.54	
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/17/2025	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	03/16/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	30.6	10.0	03/16/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/16/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 135 1' (H251528-02)

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	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/17/2025	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	03/16/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	11.6	10.0	03/16/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/16/2025	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 136 1' (H251528-03)

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	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/17/2025	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	03/16/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/16/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/16/2025	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 137 1' (H251528-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/17/2025	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	03/16/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/16/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/16/2025	ND					

Surrogate: 1-Chlorooctane 77.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 138 1' (H251528-05)

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	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/17/2025	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	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.1 % 40.6-153

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 139 1' (H251528-06)

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	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/17/2025	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	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 140 1' (H251528-07)

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	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/17/2025	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	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 141 1' (H251528-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/17/2025	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	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 142 3' (H251528-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/17/2025	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	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 95.3 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 143 1' (H251528-10)

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	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/17/2025	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	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 144 1' (H251528-11)

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	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 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	160	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 74.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 145 1' (H251528-12)

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	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.4 % 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	96.0	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 77.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 146 1' (H251528-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.5 % 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	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 76.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.0 % 40.6-153

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 147 1' (H251528-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.7 % 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	32.0	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.7 % 40.6-153

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 148 1' (H251528-15)

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	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 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	64.0	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 149 1' (H251528-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 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	304	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	22.7	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 79.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.0 % 40.6-153

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 150 1' (H251528-17)

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	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 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	112	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.5 % 40.6-153

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 151 1' (H251528-18)

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	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.6 % 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	176	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 152 1' (H251528-19)

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	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.4 % 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	64.0	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 153 1' (H251528-20)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	94.9	2.00	7.54		
Toluene*	<0.050	0.050	03/17/2025	ND	1.96	98.1	2.00	7.11		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.93	96.4	2.00	6.05		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.65	94.1	6.00	5.89		
Total BTX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.1 % 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	48.0	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	204	102	200	0.0943	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.6	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.0 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/14/2025
Reported: 03/18/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 154 1' (H251528-21)

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	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 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	96.0	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/16/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/16/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.6 % 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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a light blue horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2475

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolium, LLC

Project Manager: Jeremy Reich

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: (432) 296-0627

Fax #:

Project #: 03C1558559

Project Owner:

Project Name: Row 5 West Sun Station

Project Location: 32.1142303 -103.9071374

Sampler Name: Mario Sarkis

P.O. #:

Company: XTO

Attn: Colton Brown

Address: 3104 E Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #: 575-986-2390

Fax #:

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	BTEX	TPH	Chlorides	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER								ACID/BASE
4251526	FS134	1	C	1										3/13/05	1602			
	FS135	1	C	1											1003			
	FS136	1	C	1											1005			
	FS137	1	C	1											1006			
	FS138	1	C	1											1008			
	FS139	1	C	1											1022			
	FS140	1	C	1											1024			
	FS141	1	C	1											1026			
	FS142	3	C	1											1027			
	FS143	1	C	1											1029			

PLEASE NOTE: Sampling and Sample Preparation Capabilities are listed on the back of this form. Any other sampling methods should be noted on the back of this form. The back of this form should be completed by the sampler. The back of this form should be completed by the sampler. The back of this form should be completed by the sampler.

Relinquished By: [Signature] Date: 3/14/05 Time: 0730

Relinquished By: [Signature] Date: 3/14/05 Time: 0730

Relinquished By: [Signature] Date: 3/14/05 Time: 0730

Relinquished By: [Signature] Date: 3/14/05 Time: 0730

Relinquished By: [Signature] Date: 3/14/05 Time: 0730

Relinquished By: [Signature] Date: 3/14/05 Time: 0730

Relinquished By: [Signature] Date: 3/14/05 Time: 0730



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Jeremy Reich

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: (432) 296-0627

Fax #:

Project #: 03C1558559

Project Owner:

Project Name: Row 5 West Sub Station

Project Location: 32.1142303 -103.9071374

Sampler Name: Mario Sarkis

BILL TO

P.O. #:

Company: XTO

Attn: Colton Brown

Address: 3104 E. Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #: 575-988-2390

Fax #:

ANALYSIS REQUEST

Address: 3122 National Parks Hwy										P.O. #:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Phone #: (432) 296-0627										Attn: Cotton Brown																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Project Location: 32.1142303, -103.9071374										State: NM Zip: 88220																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Sample Name: Mario Sarkis										Phone #: 575-988-2390																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	BTEX	TPH	Chlorides																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

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Relinquished By:

Date: 3/14/25

Received By:

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

All Results are emailed. Please provide Email address:

Relinquished By:

Date: 0730

Received By:

REMARKS: Incident #: nA22428259758

Cost Center: 2234891001

Delivered By: (Circle One)

Observed Temp. °C: 42.5

Sample Condition: ☒ Intact ☐ Cool ☐ Yes ☐ No

CHECKED BY: (Initials) AR

Sampler - UPS - Bus - Other:

Corrected Temp. °C: 45.2

Sample Condition: ☐ Intact ☐ Cool ☐ Yes ☐ No

CHECKED BY: (Initials) AR

Turnaround Time: 48-hr

Standard ☒ Rush ☐

Bacteria (only) Sample Condition: ☐ Cool ☐ Intact ☐ Yes ☐ No

Observed Temp. °C: 45.2

Corrected Temp. °C: 48.3

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

AR 3/14/25



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Jeremy Reich

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: (432) 296-0627

Project #: 03C1558559

Project Name: Row 5 West Sub Station

Project Location: 32.1142303, -103.9071374

Sampler Name: Mario Sarkis

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO

Attn: Colton Brown

Address: 3104 E Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #: 575-988-2390

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

H251538
21

PS154

1

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER

ACID/BASE:

ICE / COOL

OTHER

DATE

TIME

1055

3/13/25

BTEX

TPH

Chlorides

✓

✓

✓

MRS

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Relinquished By:

Date: 3/14/25

Time: 0730

Received By:

Date: 3/14/25

Time: 1055

Received By:

Date: 3/14/25

Time: 1055

Received By:

Date: 3/14/25

Time: 1055

Received By:

Date: 3/14/25

Time: 1055

Received By:

Date: 3/14/25

Time: 1055

Received By:

Date: 3/14/25

Time: 1055

Relinquished By:

Date: 3/14/25

Time: 0730

Received By:

Date: 3/14/25

Time: 1055

Received By:

Date: 3/14/25

Time: 1055

Received By:

Date: 3/14/25

Time: 1055

Received By:

Date: 3/14/25

Time: 1055

Received By:

Date: 3/14/25

Time: 1055

Received By:

Date: 3/14/25

Time: 1055

Delivered By: (Circle One)

Observed Temp. °C

43.2

Sample Condition

Cool

Intact

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Sampler - UPS - Bus - Other:

Observed Temp. °C

43.2

Sample Condition

Cool

Intact

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

† Cardinal cannot accept verbal changes. Please email changes to caleyke@cardinalabsnm.com



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

March 20, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 03/18/25 13:38.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 155 1 (H251583-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	14.1	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 73.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.4 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 156 1 (H251583-02)

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	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTEx	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 78.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.2 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 157 1 (H251583-03)

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	03/19/2025	ND	1.95	97.3	2.00	1.60	
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57	
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73	
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89	
Total BTEX	<0.300	0.300	03/19/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 158 1 (H251583-04)

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	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTEx	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 159 1 (H251583-05)

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	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTEx	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 160 1 (H251583-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	22.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 161 1 (H251583-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	14.1	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 162 1 (H251583-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2025	ND	1.95	97.3	2.00	1.60	
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57	
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73	
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89	
Total BTX	<0.300	0.300	03/19/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 81.7 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 163 1 (H251583-09)

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	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTEX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 164 1 (H251583-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 165 1 (H251583-11)

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	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTEX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 74.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.6 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 166 1 (H251583-12)

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	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTEX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 167 1 (H251583-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 168 1 (H251583-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 169 1 (H251583-15)

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	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTEX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 170 1 (H251583-16)

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	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTEX	<0.300	0.300	03/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 74.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 45 3 (H251583-17)

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	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTEX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 08 0-2 (H251583-18)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 09 0-2 (H251583-19)

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	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTEX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2025
Reported: 03/20/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 10 0-2 (H251583-20)

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	03/19/2025	ND	1.95	97.3	2.00	1.60		
Toluene*	<0.050	0.050	03/19/2025	ND	2.05	102	2.00	1.57		
Ethylbenzene*	<0.050	0.050	03/19/2025	ND	2.00	99.8	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/19/2025	ND	5.88	97.9	6.00	1.89		
Total BTEX	<0.300	0.300	03/19/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/19/2025	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	03/19/2025	ND	212	106	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	210	105	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 79.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.7 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a light blue horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

104



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: Ensolum, LLC

Project Manager: Jeremy Reich

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: (432) 296-0627

Fax #:

Project #: 03C1558559

Project Owner:

Project Name: Row 5 West Sub Station

Project Location: 32.1142303, -103.9071374

Sampler Name: Mario Sarkis

P.O. #:

Company: XTO

Attn: Cotton Brown

Address: 3104 E Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #: 575-988-2390

Fax #:

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	Chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
HAS583	FS165	1									3/7/25	1124			
	FS166	1										1125			
	FS167	1										1126			
	FS168	1										1128			
	FS169	1										1128			
	FS170	1										1247			
	FS45	3										1303			
	SW08	0-2										1350			
	SW09	0-2										1355			
	SW10	0-2										1400			

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Relinquished By:

Time: 1338

Received By:

Signature: [Signature]

Relinquished By:

Date:

Received By:

Signature: [Signature]

Delivered By: (Circle One)

Observed Temp. °C: 1.3

Sample Condition: Cool Intact

CHECKED BY: (Initials)

Turnaround Time: 48-h

Standard: Rush

Bacteria (only): Cool Intact

Sample Condition: Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C: 9.10

Yes/No: Yes/No

Signature: [Signature]

Thermometer ID: 48-4

Signature: [Signature]

Yes/No: Yes/No

Corrected Temp. °C

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



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

March 28, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 03/24/25 12:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 190 1 (H251707-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2025	ND	1.92	96.0	2.00	6.98	
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01	
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54	
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52	
Total BTX	<0.300	0.300	03/26/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 75.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.4 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 191 1 (H251707-02)

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	03/26/2025	ND	1.92	96.0	2.00	6.98		
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52		
Total BTEX	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	55.5	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 80.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 192 1 (H251707-03)

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	03/26/2025	ND	1.92	96.0	2.00	6.98		
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52		
Total BTEX	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 71.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 193 1 (H251707-04)

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	03/26/2025	ND	1.92	96.0	2.00	6.98		
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52		
Total BTEx	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 55.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 54.7 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 194 1 (H251707-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.92	96.0	2.00	6.98		
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52		
Total BTX	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	69.1	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.2 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 195 1 (H251707-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2025	ND	1.92	96.0	2.00	6.98	
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01	
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54	
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52	
Total BTX	<0.300	0.300	03/26/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	426	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	65.5	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 70.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 196 1 (H251707-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2025	ND	1.92	96.0	2.00	6.98	
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01	
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54	
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52	
Total BTX	<0.300	0.300	03/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	256	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 74.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.0 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 197 1 (H251707-08)

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	03/26/2025	ND	1.92	96.0	2.00	6.98		
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52		
Total BTEx	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	208	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 66.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 198 1 (H251707-09)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2025	ND	1.92	96.0	2.00	6.98	
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01	
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54	
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52	
Total BTX	<0.300	0.300	03/26/2025	ND					

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	160	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 199 1 (H251707-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2025	ND	1.92	96.0	2.00	6.98	
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01	
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54	
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52	
Total BTX	<0.300	0.300	03/26/2025	ND					

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	176	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 79.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 200 1 (H251707-11)

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	03/26/2025	ND	1.92	96.0	2.00	6.98		
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52		
Total BTEx	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	1100	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	96.4	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 70.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 201 2 (H251707-12)

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	03/26/2025	ND	1.92	96.0	2.00	6.98		
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52		
Total BTEx	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	3240	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	1120	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	184	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 79.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 202 2 (H251707-13)

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	03/26/2025	ND	1.92	96.0	2.00	6.98		
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52		
Total BTEX	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	2040	16.0	03/25/2025	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	03/25/2025	ND	202	101	200	0.470	
DRO >C10-C28*	74.5	10.0	03/25/2025	ND	189	94.4	200	1.83	
EXT DRO >C28-C36	14.4	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 203 2 (H251707-14)

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	03/26/2025	ND	1.92	96.0	2.00	6.98		
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52		
Total BTEX	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	1840	16.0	03/25/2025	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	03/25/2025	ND	197	98.5	200	0.0462	
DRO >C10-C28*	202	10.0	03/25/2025	ND	186	93.0	200	1.12	QM-07
EXT DRO >C28-C36	22.2	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 204 2 (H251707-15)

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	03/26/2025	ND	1.92	96.0	2.00	6.98		
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52		
Total BTEx	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	1960	16.0	03/25/2025	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	03/25/2025	ND	197	98.5	200	0.0462	
DRO >C10-C28*	92.7	10.0	03/25/2025	ND	186	93.0	200	1.12	
EXT DRO >C28-C36	13.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.6 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 205 2 (H251707-16)

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	03/26/2025	ND	1.92	96.0	2.00	6.98		
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52		
Total BTEX	<0.300	0.300	03/26/2025	ND						

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	1800	16.0	03/25/2025	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	03/25/2025	ND	197	98.5	200	0.0462	
DRO >C10-C28*	784	10.0	03/25/2025	ND	186	93.0	200	1.12	
EXT DRO >C28-C36	179	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 206 2 (H251707-17)

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	03/26/2025	ND	1.92	96.0	2.00	6.98		
Toluene*	<0.050	0.050	03/26/2025	ND	1.99	99.6	2.00	4.01		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	3.54		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	5.85	97.5	6.00	2.52		
Total BTEx	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	2120	16.0	03/25/2025	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	03/25/2025	ND	197	98.5	200	0.0462	
DRO >C10-C28*	863	10.0	03/25/2025	ND	186	93.0	200	1.12	
EXT DRO >C28-C36	195	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 207 2 (H251707-18)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.89	94.7	2.00	2.38		
Toluene*	<0.050	0.050	03/26/2025	ND	1.97	98.5	2.00	1.32		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	0.429		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.06	101	6.00	0.459		
Total BTX	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	1880	16.0	03/25/2025	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	03/25/2025	ND	197	98.5	200	0.0462	
DRO >C10-C28*	561	10.0	03/25/2025	ND	186	93.0	200	1.12	
EXT DRO >C28-C36	128	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 79.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 208 2 (H251707-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.89	94.7	2.00	2.38		
Toluene*	<0.050	0.050	03/26/2025	ND	1.97	98.5	2.00	1.32		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	0.429		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.06	101	6.00	0.459		
Total BTX	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	2160	16.0	03/25/2025	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	03/25/2025	ND	197	98.5	200	0.0462	
DRO >C10-C28*	574	10.0	03/25/2025	ND	186	93.0	200	1.12	
EXT DRO >C28-C36	127	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/24/2025
Reported: 03/28/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 11 0-2 (H251707-20)

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	03/26/2025	ND	1.89	94.7	2.00	2.38		
Toluene*	<0.050	0.050	03/26/2025	ND	1.97	98.5	2.00	1.32		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.95	97.7	2.00	0.429		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.06	101	6.00	0.459		
Total BTEx	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	2050	16.0	03/25/2025	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	03/25/2025	ND	197	98.5	200	0.0462	
DRO >C10-C28*	357	10.0	03/25/2025	ND	186	93.0	200	1.12	
EXT DRO >C28-C36	87.3	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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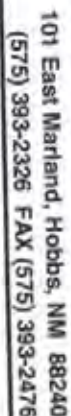
A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

2 of 2



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

FORM-006 R 3 2 10/20/21



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

March 26, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 03/25/25 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 07 0-1 (H251729-01)

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	03/25/2025	ND	1.85	92.6	2.00	1.65	
Toluene*	0.055	0.050	03/25/2025	ND	1.96	97.8	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.97	98.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	0.875	
Total BTEX	<0.300	0.300	03/25/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	19.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 63.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 62.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 171 1 (H251729-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2025	ND	1.85	92.6	2.00	1.65		
Toluene*	<0.050	0.050	03/25/2025	ND	1.96	97.8	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.97	98.3	2.00	1.32		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	0.875		
Total BTX	<0.300	0.300	03/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 68.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.9 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 172 1 (H251729-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2025	ND	1.85	92.6	2.00	1.65		
Toluene*	<0.050	0.050	03/25/2025	ND	1.96	97.8	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.97	98.3	2.00	1.32		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	0.875		
Total BTX	<0.300	0.300	03/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.7 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 173 1 (H251729-04)

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	03/25/2025	ND	1.85	92.6	2.00	1.65		
Toluene*	<0.050	0.050	03/25/2025	ND	1.96	97.8	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.97	98.3	2.00	1.32		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	0.875		
Total BTEx	<0.300	0.300	03/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 174 1 (H251729-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2025	ND	1.85	92.6	2.00	1.65		
Toluene*	<0.050	0.050	03/25/2025	ND	1.96	97.8	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.97	98.3	2.00	1.32		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	0.875		
Total BTX	<0.300	0.300	03/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 175 1 (H251729-06)

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	03/25/2025	ND	1.85	92.6	2.00	1.65		
Toluene*	<0.050	0.050	03/25/2025	ND	1.96	97.8	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.97	98.3	2.00	1.32		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	0.875		
Total BTEX	<0.300	0.300	03/25/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 73.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 176 1 (H251729-07)

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	03/25/2025	ND	1.85	92.6	2.00	1.65		
Toluene*	<0.050	0.050	03/25/2025	ND	1.96	97.8	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.97	98.3	2.00	1.32		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	0.875		
Total BTEX	<0.300	0.300	03/25/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 66.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 177 2 (H251729-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2025	ND	1.85	92.6	2.00	1.65		
Toluene*	<0.050	0.050	03/25/2025	ND	1.96	97.8	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.97	98.3	2.00	1.32		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	0.875		
Total BTX	<0.300	0.300	03/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 75.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.9 % 40.6-153

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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 178 2 (H251729-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2025	ND	1.85	92.6	2.00	1.65		
Toluene*	<0.050	0.050	03/25/2025	ND	1.96	97.8	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.97	98.3	2.00	1.32		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	0.875		
Total BTX	<0.300	0.300	03/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 78.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 179 2 (H251729-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2025	ND	1.85	92.6	2.00	1.65		
Toluene*	<0.050	0.050	03/25/2025	ND	1.96	97.8	2.00	1.45		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.97	98.3	2.00	1.32		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	0.875		
Total BTX	<0.300	0.300	03/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 91.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 180 2 (H251729-11)

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	03/26/2025	ND	1.81	90.6	2.00	0.994		
Toluene*	<0.050	0.050	03/26/2025	ND	1.93	96.5	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.94	96.8	2.00	2.92		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.03	101	6.00	2.88		
Total BTEX	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.3 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 181 2 (H251729-12)

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	03/26/2025	ND	1.81	90.6	2.00	0.994		
Toluene*	<0.050	0.050	03/26/2025	ND	1.93	96.5	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.94	96.8	2.00	2.92		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.03	101	6.00	2.88		
Total BTEX	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 72.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 182 2 (H251729-13)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2025	ND	1.81	90.6	2.00	0.994	
Toluene*	<0.050	0.050	03/26/2025	ND	1.93	96.5	2.00	1.62	
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.94	96.8	2.00	2.92	
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.03	101	6.00	2.88	
Total BTX	<0.300	0.300	03/26/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 183 2 (H251729-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.81	90.6	2.00	0.994		
Toluene*	<0.050	0.050	03/26/2025	ND	1.93	96.5	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.94	96.8	2.00	2.92		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.03	101	6.00	2.88		
Total BTX	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/26/2025	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	03/25/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 71.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 184 2 (H251729-15)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2025	ND	1.81	90.6	2.00	0.994	
Toluene*	<0.050	0.050	03/26/2025	ND	1.93	96.5	2.00	1.62	
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.94	96.8	2.00	2.92	
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.03	101	6.00	2.88	
Total BTX	<0.300	0.300	03/26/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/26/2025	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	03/26/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 79.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 185 2 (H251729-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.81	90.6	2.00	0.994		
Toluene*	<0.050	0.050	03/26/2025	ND	1.93	96.5	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.94	96.8	2.00	2.92		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.03	101	6.00	2.88		
Total BTX	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/26/2025	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	03/26/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 186 2 (H251729-17)

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	03/26/2025	ND	1.81	90.6	2.00	0.994		
Toluene*	<0.050	0.050	03/26/2025	ND	1.93	96.5	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.94	96.8	2.00	2.92		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.03	101	6.00	2.88		
Total BTEX	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/26/2025	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	03/26/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 78.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 187 2 (H251729-18)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.81	90.6	2.00	0.994		
Toluene*	<0.050	0.050	03/26/2025	ND	1.93	96.5	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.94	96.8	2.00	2.92		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.03	101	6.00	2.88		
Total BTX	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/26/2025	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	03/26/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 188 2 (H251729-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.81	90.6	2.00	0.994		
Toluene*	<0.050	0.050	03/26/2025	ND	1.93	96.5	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.94	96.8	2.00	2.92		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.03	101	6.00	2.88		
Total BTX	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/26/2025	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	03/26/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/25/2025
Reported: 03/26/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 03/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 189 2 (H251729-20)

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	03/26/2025	ND	1.81	90.6	2.00	0.994		
Toluene*	<0.050	0.050	03/26/2025	ND	1.93	96.5	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	1.94	96.8	2.00	2.92		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	6.03	101	6.00	2.88		
Total BTEX	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	03/26/2025	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	03/26/2025	ND	198	98.8	200	3.36	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	190	94.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a light blue horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: _____ **Received By:** _____

Date: _____

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: Ensolum, LLC		P.O. #:		BILL TO									
Project Manager: Jeremy Reich		Company: XTO Energy Inc.		ANALYSIS REQUEST									
Address: 3122 National Parks Hwy		Attn: Colton Brown											
City: Carlsbad		Address: 3104 E. Green St.											
Phone #: 337 257-8307		City: Carlsbad											
Fax #: 337 257-8307		State: NM Zip: 88220											
Project #: 03C1558559		Project Owner: XTO											
Project Name: Row 5 West Sub Station		State: NM Zip: 88220											
Project Location:		Phone #:											
Sampler Name: Connor Whitman		Fax #:											
FOR LAB USE ONLY													
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING			
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :
HS1729	F3180	2	C	1									
	F3181	2											
	F3182	2											
	F3183	2											
	F3184	2											
	F3185	2											
	F3186	2											
	F3187	2											
	F3188	2											
	F3189	2											
	F3180	2											
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Relinquished By:		Date: 3/25/25		Received By:		Date: 3/25/25		Time: 1:30		Time: 1:30			
Relinquished By:		Date:		Received By:		Date:		Time:		Time:			
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY:		Turnaround Time:		Standard			
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		(Initials)		Thermometer ID		Bacteria (only) Sample Condition			
		8.8		Yes		✓		A13-140		Cool Intact Observed Temp. °C			
				No				A13-140		Corrected Temp. °C			
				No				A13-140					
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com													
REMARKS: Cost Center: 1136201001 Incident ID: NAPP2428259758													
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:													
All Results are emailed. Please provide Email address:													
jeich@ensolum.com, Tkmorrissey@ensolum.com, kthomason@ensolum.com													
A/E: EW-2025-15008 GFCM: 48605000													



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

May 05, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 04/29/25 12:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/29/2025
Reported: 05/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 04/28/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 191A 2' (H252557-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2025	ND	1.97	98.6	2.00	5.91	
Toluene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	6.59	
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.09	104	2.00	7.21	
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.56	109	6.00	6.68	
Total BTX	<0.300	0.300	04/30/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/30/2025	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	04/30/2025	ND	200	99.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2025	ND	195	97.7	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	04/30/2025	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/29/2025
Reported: 05/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 04/28/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 195A 2' (H252557-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2025	ND	1.97	98.6	2.00	5.91		
Toluene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	6.59		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.09	104	2.00	7.21		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.56	109	6.00	6.68		
Total BTEx	<0.300	0.300	04/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/30/2025	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	04/30/2025	ND	200	99.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2025	ND	195	97.7	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	04/30/2025	ND					

Surrogate: 1-Chlorooctane 71.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/29/2025
Reported: 05/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 04/28/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 200A 2' (H252557-03)

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	04/30/2025	ND	1.97	98.6	2.00	5.91		
Toluene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	6.59		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.09	104	2.00	7.21		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.56	109	6.00	6.68		
Total BTEX	<0.300	0.300	04/30/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/30/2025	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	04/30/2025	ND	200	99.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2025	ND	195	97.7	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	04/30/2025	ND					

Surrogate: 1-Chlorooctane 74.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/29/2025
Reported: 05/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 04/28/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 203A 3' (H252557-04)

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	04/30/2025	ND	1.97	98.6	2.00	5.91		
Toluene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	6.59		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.09	104	2.00	7.21		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.56	109	6.00	6.68		
Total BTEX	<0.300	0.300	04/30/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/30/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2025	ND	200	99.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2025	ND	195	97.7	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	04/30/2025	ND					

Surrogate: 1-Chlorooctane 72.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/29/2025
Reported: 05/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 04/28/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 205A 3' (H252557-05)

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	04/30/2025	ND	1.97	98.6	2.00	5.91		
Toluene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	6.59		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.09	104	2.00	7.21		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.56	109	6.00	6.68		
Total BTEx	<0.300	0.300	04/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/30/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2025	ND	200	99.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2025	ND	195	97.7	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	04/30/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/29/2025
Reported: 05/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 04/28/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 206A 3' (H252557-06)

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	04/30/2025	ND	1.97	98.6	2.00	5.91		
Toluene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	6.59		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.09	104	2.00	7.21		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.56	109	6.00	6.68		
Total BTEx	<0.300	0.300	04/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/30/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2025	ND	200	99.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2025	ND	195	97.7	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	04/30/2025	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.7 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/29/2025
Reported: 05/05/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 04/28/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 208A 3' (H252557-07)

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	04/30/2025	ND	1.97	98.6	2.00	5.91		
Toluene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	6.59		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.09	104	2.00	7.21		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.56	109	6.00	6.68		
Total BTEx	<0.300	0.300	04/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/30/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2025	ND	200	99.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2025	ND	195	97.7	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	04/30/2025	ND					

Surrogate: 1-Chlorooctane 79.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.3 % 40.6-153

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: Ensolum, LLC

Project Manager: Jeremy Reich

Address: 3122 National Parks Hwy

City: Carlsbad State: NM Zip: 88220

Phone #: 337 257-8307 Fax #:

Project #: 03C1558559 Project Owner: XTO

Project Name: Row 5 West Sub Station

Project Location:

Sampler Name: Connor Whilman

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy Inc.

Attn: Colton Brown

Address: 3104 E. Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

PRESERV

SAMPLING

Lab I.D.

Sample Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:

ACID/BASE:
ICE / COOL
OTHER:

DATE

TIME

BTEX

TPH

CHLORIDE

FS191A

FS195A

FS200A

FS203A

FS205A

FS206A

FS208A

2

2

3

3

3

3

C 1

C 1

C 1

C 1

C 1

C 1

4-17-25

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Received By:

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Signature

Delivered By: (Circle One)

Carrier Temp: °C

0.1°C

Sample Condition

Cool Intact

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Sampler - UPS - Bus - Other:

Carrier Temp: °C

0.2°C

Sample Condition

Cool Intact

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

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

May 23, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 05/22/25 14:00.

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

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/22/2025
Reported: 05/23/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 05/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 194 2' (H253086-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	05/22/2025	ND	2.17	109	2.00	3.14	
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	2.15	108	2.00	3.30	
Total Xylenes*	<0.150	0.150	05/22/2025	ND	6.62	110	6.00	2.97	
Total BTX	<0.300	0.300	05/22/2025	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	112	16.0	05/23/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	218	109	200	0.126	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	206	103	200	0.988	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/22/2025
Reported: 05/23/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 05/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 201 3' (H253086-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	2.05	103	2.00	2.67		
Toluene*	<0.050	0.050	05/22/2025	ND	2.17	109	2.00	3.14		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	2.15	108	2.00	3.30		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	6.62	110	6.00	2.97		
Total BTEX	<0.300	0.300	05/22/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/23/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	218	109	200	0.126	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	206	103	200	0.988	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/22/2025
Reported: 05/23/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 05/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 202 3' (H253086-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	2.05	103	2.00	2.67		
Toluene*	<0.050	0.050	05/22/2025	ND	2.17	109	2.00	3.14		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	2.15	108	2.00	3.30		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	6.62	110	6.00	2.97		
Total BTEX	<0.300	0.300	05/22/2025	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	176	16.0	05/23/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	218	109	200	0.126	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	206	103	200	0.988	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/22/2025
Reported: 05/23/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 05/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 207 3' (H253086-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	2.05	103	2.00	2.67		
Toluene*	<0.050	0.050	05/22/2025	ND	2.17	109	2.00	3.14		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	2.15	108	2.00	3.30		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	6.62	110	6.00	2.97		
Total BTX	<0.300	0.300	05/22/2025	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	64.0	16.0	05/23/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	218	109	200	0.126	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	206	103	200	0.988	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 90.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.8 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/22/2025
Reported: 05/23/2025
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 05/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 11 0-3' (H253086-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	2.05	103	2.00	2.67		
Toluene*	<0.050	0.050	05/22/2025	ND	2.17	109	2.00	3.14		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	2.15	108	2.00	3.30		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	6.62	110	6.00	2.97		
Total BTEX	<0.300	0.300	05/22/2025	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	48.0	16.0	05/23/2025	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	05/22/2025	ND	218	109	200	0.126	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	206	103	200	0.988	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.4 % 40.6-153

Cardinal Laboratories

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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

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC

Jeremy Reich

Address: 601 N Marientfeld Street, Suite 400

City: Midland TX ZIP: 79701

Project Owner: XTO Energy, Inc

Phone #: 432-296-0627

Project #: 03C1558559

Project Name: Row 5 West Sub Station - SPILLS

Project Location: 32.1142303, -103.9071374

Sampler Name: Alex Ferrell

Lab I.D.

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

MATRIX

PRESERV.

SAMPLING

Sample I.D.

Depth (Feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015

BTEX 8021

Chloride 4500

Handwritten: 4253086

Handwritten: 1

Handwritten: 2

Handwritten: 3

Handwritten: 4

Handwritten: 5

Handwritten: 6

Handwritten: 7

Handwritten: 8

Handwritten: 9

Handwritten: 10

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PLEASE NOTE: Liability and Damages. Cardinal's liability and claims are 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 interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 5/21/25

Time: 1400

Received By: [Signature]

Verbal Result: ☐ Yes ☐ No

Add'l Phone #: [Blank]

REMARKS: Incident Number: NAPP2428259758

Cost Center: 2234991001

Relinquished By:

Date:

Time:

Received By:

Checked By: [Signature]

Turnaround Time: Standard

Handwritten: 24-hr

Bacteria (only) Sample Condition

Cool Intact

Observed Temp. °C

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

Checked By: [Signature]

Thermometer ID

Correction Factor

Handwritten: 24-hr

Bacteria (only) Sample Condition

Cool Intact

Observed 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

June 04, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: ROW 5 WEST SUB STATION - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 06/02/25 11:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/02/2025	Sampling Date:	05/29/2025
Reported:	06/04/2025	Sampling Type:	Soil
Project Name:	ROW 5 WEST SUB STATION - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558559	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.1142303, -103.9071374		

Sample ID: FS 204 3' (H253263-01)

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	06/02/2025	ND	1.84	91.9	2.00	3.58	
Toluene*	<0.050	0.050	06/02/2025	ND	1.92	96.0	2.00	4.38	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	1.92	96.0	2.00	4.04	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	5.95	99.2	6.00	3.96	
Total BTEx	<0.300	0.300	06/02/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/03/2025	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	06/02/2025	ND	207	104	200	1.30	
DRO >C10-C28*	<10.0	10.0	06/02/2025	ND	205	103	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	06/02/2025	ND					

Surrogate: 1-Chlorooctane 98.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



APPENDIX D

January 2, 2025, Remediation Work Plan



January 2, 2025

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

**Re: Remediation Work Plan
Row 5 West Booster Station
Incident Number NAPP2428259758
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document the site assessment activities completed to date and propose a work plan to address impacted soil identified at the Row 5 West Booster Station (Site). The purpose of the site assessment activities was to delineate the lateral and vertical extent of impacted soil resulting from a release of produced water at the Site. The following *Work Plan* proposes to excavate impacted soil within the top 4 feet of the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit K, Section 20, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.1142303°, -103.9071374°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On October 8, 2024, a pump failed resulting in the release of 187 barrels (bbls) of produced water onto the pad. No fluids were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) submitted on October 8, 2024, and subsequently submitted the Initial C-141 Application (C-141) on October 9, 2024. The release was assigned Incident Number NAPP2428259758.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. In February 2020, a New Mexico Office of the State Engineer (NMOSE) permitted well (C-4394), located approximately 0.44 miles west of the Site, was advanced to a depth of 110 feet bgs. Depth to groundwater is documented to be greater than 110 feet bgs. The Well Record is included in Appendix A and all referenced wells are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a dry wash located approximately 1,072 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole,

XTO Energy, Inc.
Remediation Work Plan
Row 5 West Booster Station

or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by stable geology (low potential karst designation area).

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

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On October 31, 2024 Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the C-141 and visual observations. Ensolum personnel collected fourteen delineation soil samples (SS01 through SS14) within and around the release extent from a depth of 0.5 feet bgs to assess the lateral extent of the release. 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. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH-diesel DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

On November 21, 2024, Ensolum personnel returned to the Site to oversee vertical delineation of the release extent. Delineation boreholes BH01 through BH08 were advanced in the approximate locations of SS01 through SS08, respectively. The delineation boreholes were advanced via hand auger to a maximum depth of 9 feet bgs. Discrete soil samples were collected from each borehole at depths ranging from 1-foot bgs to 9 feet bgs. Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. Delineation soil samples from each borehole, at depths ranging from 1 foot bgs to 9 feet bgs were collected, handled and analyzed as described above at Cardinal in Hobbs, New Mexico. The soil sample locations are depicted on Figure 2.

XTO Energy, Inc.
Remediation Work Plan
Row 5 West Booster Station

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples SS01/BH01 through SS08/BH08 indicated that TPH-GRO/TPH-DRO, TPH, and/or chloride concentrations exceeded the Closure Criteria and/or reclamation requirement at depths ranging from 0.5 feet to 4 feet bgs. Laboratory analytical results for delineation soil samples SS06/BH06 and SS08/BH08 collected at 5 feet and 6 feet bgs, respectively, indicated that all COC concentrations were in compliance with the strictest Table I Closure Criteria, successfully defining the vertical extent of the release. In addition, laboratory analytical results for delineation soil samples SS09 through SS14 collected outside of the release extent indicated concentrations of all COCs were compliant with the Closure Criteria and reclamation requirement and successfully defined the lateral extent of the release. Laboratory analytical results are summarized in Table 1 and the Laboratory Analytical Reports & Chain-of-Custody Documentation are presented in Appendix D.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated TPH-GRO/TPH-DRO, TPH, and/or chloride concentrations exists across an approximate 72,456 square foot area and extends to a maximum depth of 4 feet bgs. XTO proposes to complete the following remediation activities:

- Excavation of waste-containing and impacted soil to a depth of 4 feet bgs. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with the strictest Table I Closure Criteria.
- An estimated 10,734 cubic yards of waste-containing and impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- Following excavation and a review of confirmation soil sampling results indicating all waste-containing and impacted soil has been removed, the excavation will be backfilled and recontoured to match pre-existing conditions and reseeded with a BLM approved seed mixture.

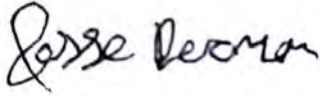
Due to the estimated 72,456 square foot size of the excavation, XTO requests a variance for frequency of excavation confirmation samples. XTO proposes the frequency of confirmation sampling for the excavation floor to be decreased from every 200 square feet (approximately 362 samples) to every 400 square feet (approximately 181 samples). Each 5-point composite floor sample will represent a 400 square foot area. The proposed sampling grid and approximate excavation extent is depicted on Figure 3. Sidewall samples in areas of the excavation in the pasture which are anticipated to be as deep as 4 feet bgs will be collected at a frequency of every 200 square feet (approximately 11 samples). The soil samples will be handled as described above and analyzed for all COCs at Cardinal in Hobbs, New Mexico.

XTO will proceed with the excavation and soil sampling activities and will submit a Closure Report within 90 days of the date of approval of this Work Plan by the NMOCD.

XTO Energy, Inc.
Remediation Work Plan
Row 5 West Booster Station

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

Sincerely,
Ensolum, LLC



Jesse Dorman
Associate Geologist



Tacoma Morrissey, MS
Associate Principal

cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

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



FIGURES

Legend

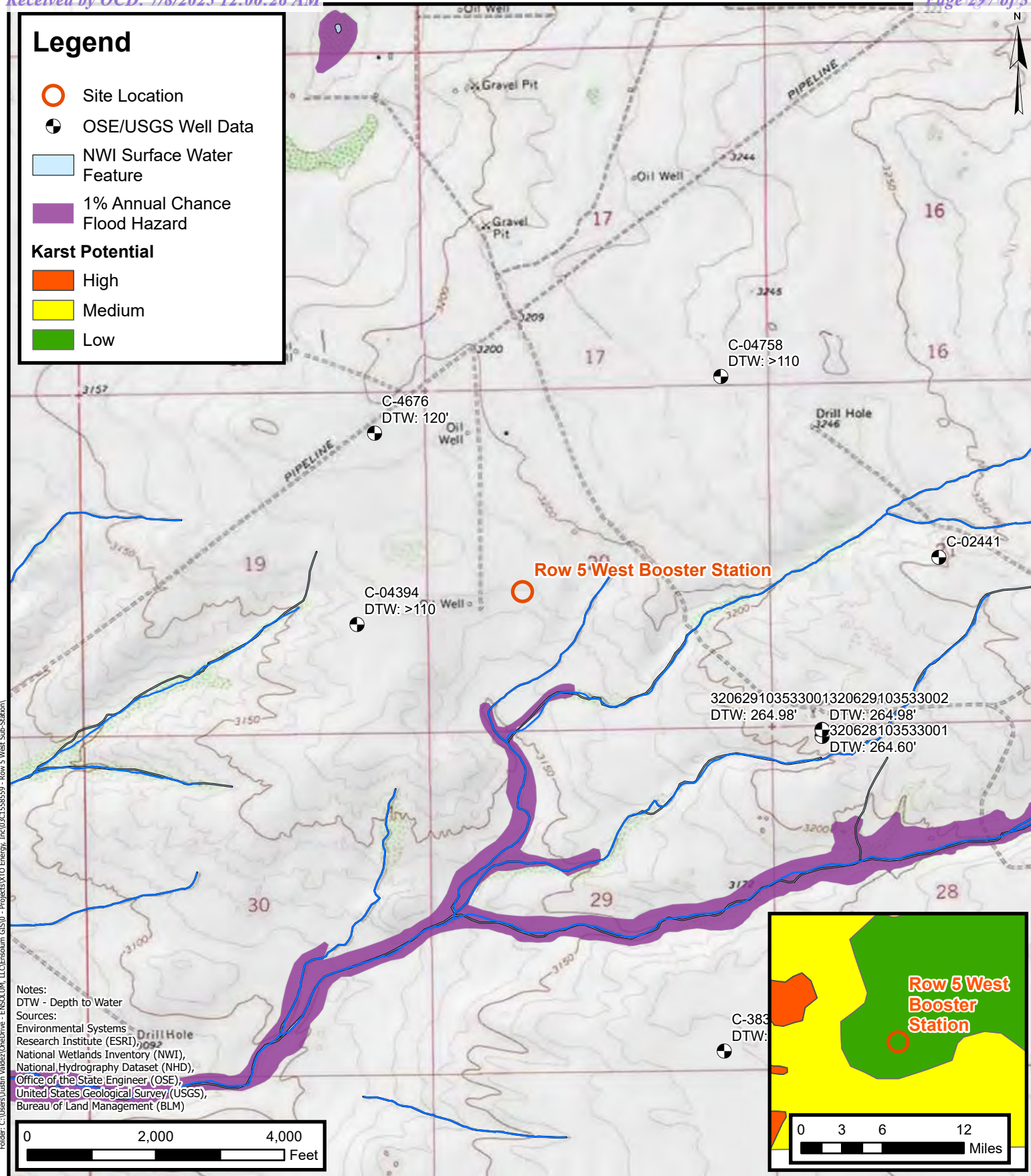
- Site Location
- OSE/USGS Well Data

■ NWI Surface Water Feature

■ 1% Annual Chance Flood Hazard

Karst Potential

- High
- Medium
- Low



Site Receptor Map

XTO Energy, Inc
Row 5 West Booster Station
Incident Number: nAPP2428259758
Unit K, Section 20, T25S, R30E
Eddy County, New Mexico

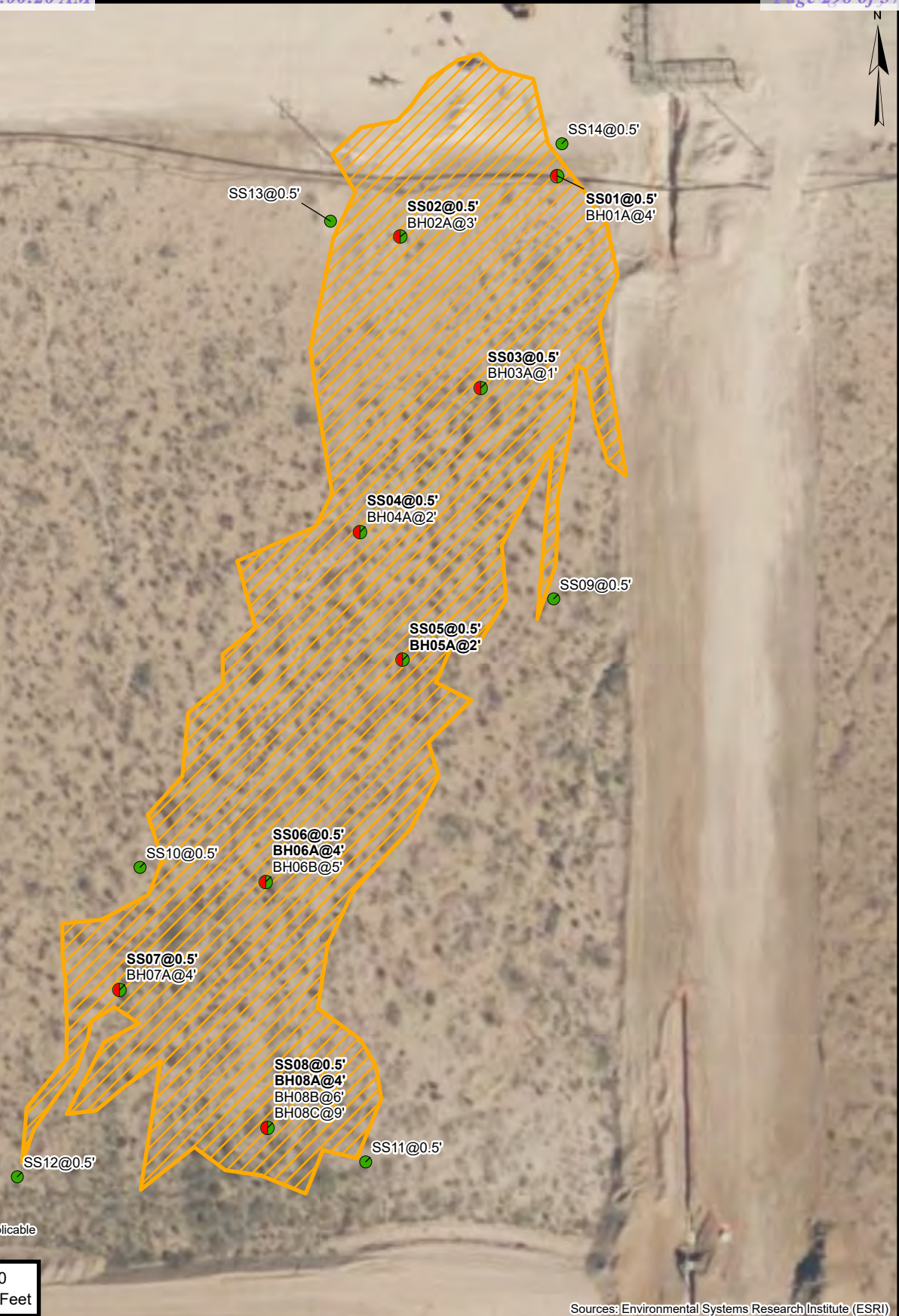
FIGURE

1



Legend



- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Release Extent

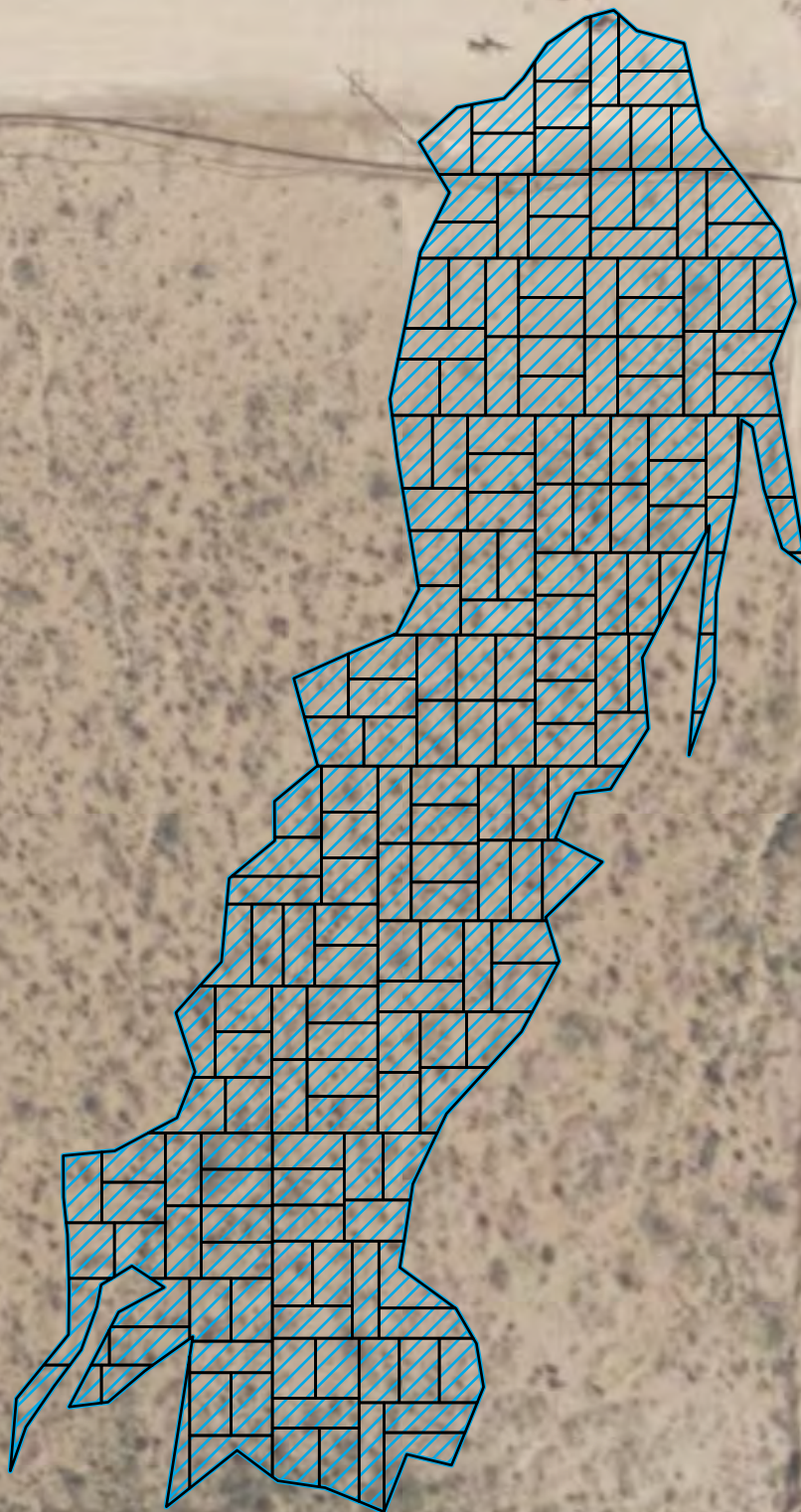
**Delineation Soil Sample Locations**

XTO Energy, Inc
 Row 5 West Booster Station
 Incident Number: nAPP2428259758
 Unit K, Section 20, T25S, R30E
 Eddy County, New Mexico

FIGURE**2**

Legend

-  Proposed Excavation
Extent
-  400 Sqft Sampling Grid



0 15 30 60 90 120
Feet

Sources: Environmental Systems Research Institute (ESRI)



Proposed Excavation Map

XTO Energy, Inc
Row 5 West Booster Station
Incident Number: nAPP2428259758
Unit K, Section 20, T25S, R30E
Eddy County, New Mexico

FIGURE**3**



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 ROW 5 West Booster Station
 XTO Energy, Inc
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	10/31/2024	0.5	<0.050	<0.300	<10.0	625	120	625	745	2,720
BH01A	11/21/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	10/31/2024	0.5	<0.050	<0.300	<10.0	155	25.7	155	181	4,880
BH02A	11/21/2024	3	<0.050	<0.300	<10.0	45.7	<10.0	45.7	45.7	224
SS03	10/31/2024	0.5	<0.050	<0.300	<10.0	1,420	289	1,420	1,709	3,480
BH03A	11/21/2024	1	<0.050	<0.300	<10.0	42.8	<10.0	42.8	42.8	208
SS04	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,600
BH04A	11/21/2024	2	<0.050	<0.300	<10.0	38.5	<10.0	38.5	38.5	96.0
SS05	10/31/2024	0.5	<0.050	<0.300	<10.0	122	16.1	122	138	2,040
BH05A	11/21/2024	2	<0.050	<0.300	<10.0	3,090	666	3,090	3,756	144
SS06	10/31/2024	0.5	<0.050	2.53	320	4,590	588	4,910	5,498	2,400
BH06A	11/21/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH06B	11/21/2024	5	<0.050	<0.300	<10.0	31.5	<10.0	31.5	31.5	112
SS07	10/31/2024	0.5	<0.050	<0.300	<10.0	226	55.1	226	281	2,200
BH07A	11/21/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SS08	10/31/2024	0.5	<0.050	<0.300	<10.0	608	113	608	721	3,040
BH08A	11/21/2024	4	<0.050	<0.300	<10.0	151	25.8	151	177	64.0
BH08B	11/21/2024	6	<0.050	<0.300	<10.0	16.0	<10.0	16.0	16.0	48.0
BH08C	11/21/2024	9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
ROW 5 West Booster Station
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SS09	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS10	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS11	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS12	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS13	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS14	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

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

		LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MW01	Date: 2/4/2020			
Project Name: ADU 816 PLU 423		RP Number: ZRP-3790						
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: FS		Method: SONIC				
Lat/Long:		Field Screening: CHLORIDES, PID		Hole Diameter: 4" / 6" Total Depth: 110'				
Comments: No sampling. Lithology remarks only								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					1			hydrovac excavated (refusal @ 1')
					2			2.5' SAND, dry, well graded, coarse-fine graind,
					3		SW-S	light brwn - tan, no stain, no odor
					4			5' few silty sand pockets, reddish brwn, no plas, non cohesive
					5			
					6			
					7		SP	6' SAND, dry, poorly graded, light brwn - brwn, fine - very fine
					8			
					9			7.5' some mod consol ss
					10		SW-S	light brwn - brwn, sub rounded
					11			10' abundant ss 10-11' color change
					12			12' ss gravel? absent tan-off white
					13		SP	16' abundant ss gravel 13' back t/ (mod consol) light brwn - brown
					14			19' abundant - some
					15			21.5' sandstone, light, abundant brwn - tan, dry, mod well consolidated
					16		SW-S	
					17			23' sandstone chunks absent
					18			
					19			
					20			
					21			
					22			
					23			
					24			
					25			



LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Compliance · Engineering · Remediation

Identifier:

MW01

Date:

2/4/2020

Project Name:

ADU-816

PLU 423

RP Number:

2RP-2674

2RP-3790

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: FS

Method: SONIC

Lat/Long:

Field Screening: CHLORIDES, PID.

Hole Diameter:

4 1/8"


Total Depth:


110'


Comments:

rig adding
water

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					26			
					27			
D			Z		28		SP	27.5' SAND, dry, light brown-tan, poorly graded, fine-very fine grey-grey
					29			30' trace light brown-tan caliche pebbles (gravel), rounded
			Z		30			
					31			31' caliche pebbles absent
			Z		32			
D					33			31.5' color change light brown-reddish brown
					34			
			Z		35			33-34' abundant ss chunks, mod consol
M					36			35' ss chunks absent
			Z		37		SW-S	
					38			36' some clay pockets, reddish brown, few pebbles, rounded-subrounded, grey-light grey, few laminations w/ clay, caliche, dolomite
			Z		39			
					40			
			Z		41			
					42			42.5' clay laminations, trace, reddish brown
			Z		43			
					44			44' color change, light brown-tan, SILTY sand
			Z		45			
					46		SP-SM	44.5' some SILTY sand, light brown
			Z		47			-tan, no plasticity, non cohesive, trace high plas clay nodules, reddish brown
D					48			
					49			48.5' low plas clay band, orange (35-40 mm)
D			Z		50			49.5' faint yellow band, (15-20 mm)

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MW01	Date: 2/4/2020					
		Project Name: PLU 423	RP Number: ZRP-3790					
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: FS	Method: sonic					
Lat/Long:	Field Screening: CHLORIDES, PH	Hole Diameter: 4" / 6"	Total Depth: 110'					
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
U			Z		51		SP	51.5' trace, high plas clay nodules
U			Z		52			
U			Z		53			53-54' some silty ss, poorly consolidated
M			Z		54			
M			Z		55			55.5' color change tan-grey band (30mm)
M			Z		56			
M			Z		57			59.5' SILTY sand, light
M			Z		58			brwn-brwn, moist,
M			Z		59			no plas, non cohesive,
M			Z		60		SM	no stain
U			Z		61			62' more consolidated
M			Z		62			64' dark brwn color
U			Z		63		sm-s	change, silty clay nodules
M			Z		64			66' pockets of silty
M			Z		65			clay brwn-green
U			Z		66			68' low plas clay pockets
M			Z		67			some, few low plas
M			Z		68			clay laminations
U			Z		69			
U			Z		70			71' SILTY sand, dry,
			Z		71			no plas, non cohesive,
			Z		72			light brwn-tan
			Z		73			74' trace caliche pebbles,
			Z		74		SM	light grey-grey
			Z		75			

 <p>LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation</p>		Identifier: MWDI	Date: 2/4/2020					
		Project Name: PLU 423	RP Number: 2RP-3790					
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: FS, BB	Method: sonic					
Lat/Long:		Field Screening: CHLORIDES, PID	Hole Diameter: 6 1/4"					
			Total Depth: 110'					
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			N		76		SM	76.5' trace low plas clay nodules, reddish brown
D			N		77			
D			N		78			82' CLAYSTONE, moist, brown-greenish grey, low plasticity, cohesive, no stain, no odor, mod consolidated
D			N		79			
D			N		80			
D			N		81			85' SILTY sand, dry, light brown-brown, no plas, non cohesive, no stain, no odor
D			N		82		CL-S	
D			N		83			
D			N		84			
D			N		85		SM	87' color change tan-off white
D			N		86			88' light brown-brown
D			N		87		SM-S	
D			N		88			87' SILTSTONE, dry, w/ clay pockets, low plas
D			N		89			
D			N		90			
D			N		91			91' abundant clay pockets
D			N		92			94.5' band yellow low plas clay
D			N		93			
D			N		94		SM	
D			N		95		CH	end @ 95' 2/4/2020
M			N		96			2/5/20
M			N		97			95'-101' CLAY, moist, brown-dark brown, high plasticity, cohesive, some tan clay laminations, no stain, no odor.
D			N		98			
M			N		99			98'-99' tan fine grain sandstone stringers.
M			N		100			

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MW01	Date: 2/5/2020					
Project Name: PLU 423		RP Number: 2RP-3790						
Logged By: BP		Method: Sonic						
Lat/Long:		Field Screening: CHLORIDES, PID.	Hole Diameter: 6" / 4"					
Total Depth: 110'								
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			N		101		CH SP-S	101' - 105' SANDSTONE, tan-light brown, dry, moderately consolidated, calcareous cemented, poorly graded, no stain, no odor.
D			N		102			
D			N		103			
D			N		104			
m			N		105		CH	105' - 110' CLAY, moist, dark brown - brown, high plasticity, cohesive, tan fine sand laminations, no stain, no odor.
D			N		106			
D			N		107			
m			N		108			107' - 109' tan - light brown well consolidated fine green sandstone stringers.
			N		109			
					110			
					111		TD @ 110'	TD @ 110'
					112			
					113			
					114			
					115			
					116			
					117			
					118			
					119			
					120			
					121			
					122			
					123			
					124			
					125			



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc.
Row 5 West Booster Station
nAPP2428259758



Photograph: 1 Date: 10/08/2024
Description: Staining within release extent
View: Southeast



Photograph: 2 Date: 10/31/2024
Description: Staining within release extent
View: South



Photograph: 3 Date: 11/21/2024
Description: Delineation activities
View: Northeast





Photograph: 4 Date: 11/21/2024
Description: Delineation activities
View: Southwest





APPENDIX C


Lithologic Soil Sampling Logs


								Sample Name: SS01/BH01		Date: 11/21/2024	
								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: JDB		Method: Hand auger	
Coordinates: 32.114135, -103.907115								Hole Diameter: 2.5"		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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	4088	0.0	N	SS01	0.5	0	SP/CL	(0-4') SAND, clay to sand sized grained, dark tan, poorly consolidated, no odor, poorly graded			
D	4054	3.2	Y	BH01	1	1					
D	<179.2	2.8	N			2					
D	<179.2	1.9	N			3					
D	<179.2	0.8	N	BH01A	4	4					
								(@4') Hit Refusal			
Total Depth @ 4 BGS											

								Sample Name: SS02/BH02		Date: 11/21/2024	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
Coordinates: 32.114051, -103.907378								Logged By: JDB		Method: Hand auger	
								Hole Diameter: 2.5"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	10,064	0.0	N	SS02	0.5	0	SP/CL	(0-4') SAND, clay to sand sized grained, dark tan, poorly consolidated, no odor, poorly graded (+ faint odor)			
D	856.8	2.3	Y	BH02	1	1					
D	856.8	7.5	Y			2					
D	<179.2	1.8	N	BH02A	3	3					
Total Depth @ 3' BGS											

								Sample Name: SS03/BH03		Date: 11/21/2024	
								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: JDB		Method: Hand auger	
Coordinates: 32.113835, -103.907246								Hole Diameter: 2.5"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	1034	7.3	Y	SS03	0.5	0	SP/CL	(0-1') SAND, clay to sand sized grained, dark tan, poorly consolidated, faint odor, poorly graded			
D	274.4	0.7	N	BH03A	1	1					
Total Depth @ 1' BGS											

								Sample Name: SS04/BH04		Date: 11/21/2024	
								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: JDB		Method: Hand auger	
Coordinates: 32.113631, -103.907450								Hole Diameter: 2.5"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)		Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
D	6260	0.6	N	SS04	0.5		0	SP/CL	(0-2') SAND, clay to sand sized grained, dark tan, poorly consolidated, faint odor, poorly graded		
D	4435.2	0.4	N	BH04	1	+	1				
D	162.4	0.4	N	BH04A	2	+	2				
Total Depths @ 2' BGS											

								Sample Name: SS05/BH05		Date: 11/21/2024	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
Coordinates: 32.113448, -103.907381								Logged By: JDB		Method: Hand auger	
								Hole Diameter: 2.5"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	2777	0.30	Y	SS05	0.5	0	SP/CL	(0-2') SAND, clay to sand sized grained, dark tan, poorly consolidated, faint odor, poorly graded			
D	918.4	1.2	Y	BH05	1	1					
D	146	1.0	N	BH05A	2	2					
Total Depth @ 2' BGS											



ENSOLUM

Sample Name: SS06/BH06

Date: 11/21/2024

Site Name: Row 5 West Sub Station

Incident Number: nAPP2428259758

Job Number: 03C1558559

Logged By: JDB

Method: Hand auger

LITHOLOGIC / SOIL SAMPLING LOG


Coordinates: 32.113134, -103.907614


Hole Diameter: 2.5"

Total Depth: 5'

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. 40% correction factor included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP/CL	(0-5') SAND, clay to sand sized grained, dark tan, poorly consolidated, faint odor, poorly graded
D	4088	101.7	Y	SS06	0.5			
D	17136	2.5	Y	BH06	1	1		
D	638.4	2.5	Y			2		
D	<162.4	2.1	N			3		
D	<162.4	2.0	N	BH06A	4	4		
D		1.0		BH06B	5	5		
Total Depth @ 5 BGS								

								Sample Name: SS07/BH07		Date: 11/21/2024	
								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: JDB		Method: Hand auger	
Coordinates: 32.112982, -103.907860								Hole Diameter: 2.5"		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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)		Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
D	3024	0.0	Y	SS07	0.5		0	SP/CL	(0-4') SAND, clay to sand sized grained, dark tan, poorly consolidated, faint odor, poorly graded		
D	1170.4	0.7	N	BH07	1		1				
D	638.4	0.7	N				2				
D	515.2	0.7	N				3				
D	414.4	0.6	N	BH07A	4		4				
Total Depth @ 4' BGS											

								Sample Name: SS08/BH08		Date: 11/21/2024	
								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: JDB		Method: Hand auger	
Coordinates: 32.112783, -103.907615								Hole Diameter: 2.5"		Total Depth: 9'	
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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	3186	12.9	Y	SS08	0.5	0	SP/CL	(0-9') SAND, clay to sand sized grained, dark tan, poorly consolidated, faint odor, poorly graded			
D	1982.4	5.4	Y	BH08	1	1					
D	996.8	5.1	Y			2					
D	576.8	3.8	N			3					
D	162.4	3.0	N	BH0A	4	4					
D	<162.4	6.5	N			5					
D	<162.4	3.7	N	BH08B	6	6					
D	<162.4	6.5	N			7					
D	<162.4	3.4	N			8					
D	<162.4	3.8	N	BH08C	9	9					
Total Depth @ 9'								(@ 9') Hit Refusal			



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

November 26, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 12:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/22/2024
Reported: 11/26/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 01 A 4' (H247177-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTX	<0.300	0.300	11/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 65.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/22/2024
Reported: 11/26/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 02 A 3' (H247177-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	45.7	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/22/2024
Reported: 11/26/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 03 A 1' (H247177-03)

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	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTEX	<0.300	0.300	11/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	42.8	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 59.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.2 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/22/2024
Reported: 11/26/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 04 A 2' (H247177-04)

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	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTEX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	38.5	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/22/2024
Reported: 11/26/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 05 A 2' (H247177-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTX	<0.300	0.300	11/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	3090	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	666	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/22/2024
Reported: 11/26/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 06 A 4' (H247177-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/22/2024
Reported: 11/26/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 07 A 4' (H247177-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTX	<0.300	0.300	11/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/22/2024
Reported: 11/26/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 08 A 4' (H247177-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	151	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	25.8	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For 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

Project Manager: Ben Bell

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: 489 454 0852

Fax #:

Project #: 03C1558559

Project Owner: XTO

Project Name: Redwin West Substation

Project Location: 32,1142303, -105.9071374

Sampler Name: Joshua Boxley

BILL TO

P.O. #:

Company: XTO Energy Inc

Attn: Colton Brown

Address: 3104 E Green 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	Chlorides	TPH	BTEX	ANALYSIS REQUEST			
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER						ACID/BASE	ICE / COOL	OTHER	PRESERV
1241717	BH01A	4	G	1															
	BH02A	3	G	1															
	BH03A	2	G	1															
	BH04A	2	G	1															
	BH05A	2	G	1															
	BH06A	4	G	1															
	BH07A	4	G	1															
	BH08A	4	G	1															

PLEASE NOTE: Locality and Ownership: Cardholder's facility and chain of custody records, verified by any other means, are required to be completed and signed by the cardholder for the use of the cardholder. All cards, including those for inspection and any other data, shall be retained until the cardholder has received the results of the analysis. In no event shall Cardholder be liable for, or responsible for, any damage, including but not limited to, loss of data, loss of profits, or loss of business, resulting from the use of the cardholder. The cardholder shall be responsible for the accuracy of the information provided on the cardholder. The cardholder shall be responsible for the accuracy of the information provided on the cardholder. The cardholder shall be responsible for the accuracy of the information provided on the cardholder.

Relinquished By:

Date:

Received By:

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

All Results are emailed. Please provide Email address: @ensolum.com, T Morrissey@ensolum.com, KThomason@ensolum.com

Relinquished By:

Date:

Received By:

REMARKS: 1081711001

Turnaround Time: Standard ☐ Bacteria (only) Sample Condition

Delivered By: (Circle One)

Observed Temp: 48.80

Sample Condition

CHECKED BY: (Initials)

Turnaround Time: Standard ☐ Bacteria (only) Sample Condition

Observed Temp: 48.80

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



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

November 04, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/01/24 12:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 01 0.5' (H246677-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	2720	16.0	11/02/2024	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	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	625	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	120	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 02 0.5' (H246677-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	4880	16.0	11/03/2024	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	11/01/2024	ND	198	99.1	200	3.45		
DRO >C10-C28*	155	10.0	11/01/2024	ND	200	100	200	6.95		
EXT DRO >C28-C36	25.7	10.0	11/01/2024	ND						

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 03 0.5' (H246677-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	3480	16.0	11/03/2024	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	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	1420	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	289	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 04 0.5' (H246677-04)

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	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTEX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	3600	16.0	11/03/2024	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	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 05 0.5' (H246677-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	2040	16.0	11/03/2024	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	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	122	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	16.1	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 06 0.5' (H246677-06)

BTEX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	0.203	0.050	11/02/2024	ND	2.07	104	2.00	5.61	GC-NC1
Total Xylenes*	2.33	0.150	11/02/2024	ND	6.18	103	6.00	6.01	GC-NC1
Total BTEX	2.53	0.300	11/02/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 233 % 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	2400	16.0	11/03/2024	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*	320	10.0	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	4590	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	588	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 153 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 07 0.5' (H246677-07)

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	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTEX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2200	16.0	11/03/2024	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	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	226	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	55.1	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 08 0.5' (H246677-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTEX	<0.300	0.300	11/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	11/03/2024	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	11/02/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	608	10.0	11/02/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	113	10.0	11/02/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 09 0.5' (H246677-09)

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	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTEX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	11/03/2024	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	11/02/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 10 0.5' (H246677-10)

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	11/02/2024	ND	2.12	106	2.00	4.62		
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05		
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61		
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01		
Total BTEx	<0.300	0.300	11/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	11/03/2024	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	11/02/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 11 0.5' (H246677-11)

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	11/01/2024	ND	2.23	112	2.00	1.89		
Toluene*	<0.050	0.050	11/01/2024	ND	2.42	121	2.00	4.54		
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.51	126	2.00	6.61		
Total Xylenes*	<0.150	0.150	11/01/2024	ND	7.52	125	6.00	7.29		
Total BTEx	<0.300	0.300	11/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	<16.0	16.0	11/03/2024	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	11/02/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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*=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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 12 0.5' (H246677-12)

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	11/01/2024	ND	2.23	112	2.00	1.89	
Toluene*	<0.050	0.050	11/01/2024	ND	2.42	121	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.51	126	2.00	6.61	
Total Xylenes*	<0.150	0.150	11/01/2024	ND	7.52	125	6.00	7.29	
Total BTEX	<0.300	0.300	11/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	11/03/2024	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	11/02/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 13 0.5' (H246677-13)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2024	ND	2.23	112	2.00	1.89	
Toluene*	<0.050	0.050	11/01/2024	ND	2.42	121	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.51	126	2.00	6.61	
Total Xylenes*	<0.150	0.150	11/01/2024	ND	7.52	125	6.00	7.29	
Total BTX	<0.300	0.300	11/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/03/2024	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	11/02/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/01/2024
Reported: 11/04/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 14 0.5' (H246677-14)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2024	ND	2.23	112	2.00	1.89	
Toluene*	<0.050	0.050	11/01/2024	ND	2.42	121	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.51	126	2.00	6.61	
Total Xylenes*	<0.150	0.150	11/01/2024	ND	7.52	125	6.00	7.29	
Total BTX	<0.300	0.300	11/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	32.0	16.0	11/03/2024	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	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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.
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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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC Project Manager: Ben Bellie Address: 3122 National Parks Hwy City: Carlsbad State: NM Zip: 86220 Phone #: 989-854-0852 Fax #: Project #: 03C1558559 Project Owner: XTO Project Name: Row 5 West Sub-Station Project Location: 32.1142303, -103.9071374 Sampler Name: Azad Vojdani 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: 86220 Phone #: Fax #:				ANALYSIS REQUEST											
Lab I.D. H24427		Sample I.D.		Sample Depth (feet) 0.5'		(G)RAB OR (C)OMP # CONTAINERS		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV ACID/BASE ICE / COOL OTHER:		SAMPLING DATE TIME		BTEX		TPH		CHLORIDE	
1	SS01																		
2	SS02																		
3	SS03																		
4	SS04																		
5	SS05																		
6	SS06																		
7	SS07																		
8	SS08																		
9	SS09																		
10	SS10																		
<small>PLEASE NOTE: Lability and Design: Contractor liability and design excludes drilling for any other reason whether stated or not, and shall be limited to the amount paid by the client for the analysis. No design liability shall be assumed for any other reason whether stated or not, and shall be limited to the amount paid by the client for the analysis. In no event shall Contractor be liable for consequential damages, including without limitation, loss of use, or profits, incurred by client, its subsidiaries, affiliates, or successors, arising out of or in connection with the performance of services rendered by Contractor, regardless of whether such claim is based upon theory of the breach, contract, tortious or otherwise.</small>																			
Relinquished By: 				Received By: 				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Addt Phone #:				REMARKS: Cost center: 1081711001 Incident #: NAPP2428258758							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Overage Temp. °C 5.7 Cooler Temp. °C 5.1 Sample Condition Cool <input checked="" type="checkbox"/> Effect <input checked="" type="checkbox"/> Checked By: (Initials) AV				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID: 4444 Corrected Temp. °C 24.74 Bacteria (only) Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C											



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

November 26, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 12:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/22/2024
Reported: 11/26/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 06 B 5' (H247176-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2024	ND	2.08	104	2.00	7.12	
Toluene*	<0.050	0.050	11/23/2024	ND	2.01	101	2.00	3.67	
Ethylbenzene*	<0.050	0.050	11/23/2024	ND	2.08	104	2.00	3.84	
Total Xylenes*	<0.150	0.150	11/23/2024	ND	6.24	104	6.00	3.26	
Total BTX	<0.300	0.300	11/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/25/2024	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	11/23/2024	ND	205	103	200	3.25	
DRO >C10-C28*	31.5	10.0	11/23/2024	ND	192	96.0	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	11/23/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a light blue horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: Ben Bell

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 949 854 0852

State: NM Zip: 88220

Project #: 03C15528559

Fax #: Project Owner: XTO

Project Name: Row 5 West Substation

Project Location: 32.142303, -103.9071374

Sampler Name: Joshua Boxley

BILL TO

P.O. #:

Company: XTO Energy Inc

Attn: Colton Brown

Address: 3104 E Green St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE TIME

Chlorides

TPH

BTEX

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Relinquished By:

Date:

Received By:

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

All Results are emailed. Please provide Email address:

Ben Bell @ensolum.com, T Morrissey@ensolum.com, K Thomas@ensolum.com

Relinquished By:

Date:

Received By:

REMARKS: 1081711001
Incident: 1081711001
Cost Center: 1081711001

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

CHECKED BY: (Initials)

Turnaround Time: Standard

Rush

Bacteria (only) Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

Yes

Thermometer ID

Corrected Temp. °C

Cool Intact

Observed Temp. °C

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



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

November 26, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 12:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/22/2024
Reported: 11/26/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 08 B 6' (H247175-01)

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	11/23/2024	ND	2.08	104	2.00	7.12	
Toluene*	<0.050	0.050	11/23/2024	ND	2.01	101	2.00	3.67	
Ethylbenzene*	<0.050	0.050	11/23/2024	ND	2.08	104	2.00	3.84	
Total Xylenes*	<0.150	0.150	11/23/2024	ND	6.24	104	6.00	3.26	
Total BTEx	<0.300	0.300	11/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/25/2024	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	11/23/2024	ND	205	103	200	3.25	
DRO >C10-C28*	16.0	10.0	11/23/2024	ND	192	96.0	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	11/23/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a light blue horizontal line.

Mike Snyder For 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

181

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:	
Project Manager: Ben Beil		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 #: 505.969.854 Fax #: 505.969.854		State: NM Zip: 88220	
Project #: 0301558559 Project Owner: XTO		Phone #:	
Project Name: ROWS West Sub-station		Fax #:	
Project Location: 32.1142303, -103.9071374			
Sampler Name: Joshua Boxley			

FOR LAB USE ONLY		Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Relinquished By:	Date: 11.22.24	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: 1800	Received By:	All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS: APP 24726259758
Relinquished By:	Time:	Received By:	Cost Center: 1081711001
Delivered By: (Circle One)	Observed Temp. °C: 53.2	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: 48 hr
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 47.2	Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID: #4454100
			Correction Factor: 0.5°C
			Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
			Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/>
			Cool Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/>
			Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C <input type="checkbox"/>

FORM-000 R 3.2 10/07/12

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



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

November 26, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 12:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is written in a cursive, flowing style.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/22/2024
Reported: 11/26/2024
Project Name: ROW 5 WEST SUB - STATION
Project Number: 03C1558559
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 08 C 9' (H247174-01)

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Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



141

BILL TOFOR LAND USE ONLY

Relinquished by:

Relinquished By:Delivered By: (Circle One)

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Phone: (505) 629-6116

Online Phone Directory
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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 416412

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 416412
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2428259758
Incident Name	NAPP2428259758 ROW 5 WEST BOOSTER STATION @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Row 5 West Booster Station
Date Release Discovered	10/08/2024
Surface Owner	Federal

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

Nature and Volume of Release	
<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	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 187 BBL Recovered: 0 BBL Lost: 187 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 2

Action 416412

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 416412
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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: 01/02/2025
--	--

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Santa Fe, NM 87505

QUESTIONS, Page 3

Action 416412

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 416412
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	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)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4880
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	5498
GRO+DRO (EPA SW-846 Method 8015M)	4910
BTEX (EPA SW-846 Method 8021B or 8260B)	2.5
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	02/27/2025
On what date will (or did) the final sampling or liner inspection occur	04/28/2025
On what date will (or was) the remediation complete(d)	04/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	72456
What is the estimated volume (in cubic yards) that will be reclaimed	10734
What is the estimated surface area (in square feet) that will be remediated	72456
What is the estimated volume (in cubic yards) that will be remediated	10734
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 416412

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 416412
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/02/2025
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QUESTIONS, Page 5

Action 416412

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 416412
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 416412

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 416412
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	402949
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/22/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	4000

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	No

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CONDITIONS

Action 416412

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 416412
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance request to collect floor samples every 400 ft2 is approved. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed	1/6/2025

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QUESTIONS

Action 482332

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 482332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2428259758
Incident Name	NAPP2428259758 ROW 5 WEST BOOSTER STATION @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ROW 5 WEST BOOSTER STATION
Date Release Discovered	10/08/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 187 BBL Recovered: 0 BBL Lost: 187 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 482332

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 482332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/02/2025
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QUESTIONS, Page 3

Action 482332

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 482332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	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)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4880
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	5498
GRO+DRO (EPA SW-846 Method 8015M)	4910
BTEX (EPA SW-846 Method 8021B or 8260B)	2.5
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	02/27/2025
On what date will (or did) the final sampling or liner inspection occur	04/28/2025
On what date will (or was) the remediation complete(d)	04/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	72456
What is the estimated volume (in cubic yards) that will be reclaimed	10734
What is the estimated surface area (in square feet) that will be remediated	72456
What is the estimated volume (in cubic yards) that will be remediated	10734
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 482332

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 482332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	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
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Ashley McAfee Email: ashley.a.mcafee@exxonmobil.com Date: 07/07/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 482332

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 482332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 482332

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 482332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	467167
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/29/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	400

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	81740
What was the total volume (cubic yards) remediated	7060
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	81740
What was the total volume (in cubic yards) reclaimed	7060
Summarize any additional remediation activities not included by answers (above)	Excavation activities were conducted at the Site as indicated in the Work Plan to address the October 8, 2024, release of produced water. A copy of the approved Work Plan is presented in Appendix E. Laboratory analytical results for all confirmation soil samples collected from the final excavation extent indicate COC concentrations were compliant with the Closure Criteria and reclamation requirements. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation will be backfilled with material purchased locally and the Site will be recontoured to match pre-existing site conditions. Excavation of soil has mitigated impacts exceeding the Closure Criteria 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 NAPP2428259758.

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: Ashley McAfee Email: ashley.a.mcafee@exxonmobil.com Date: 07/07/2025
--	--

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QUESTIONS, Page 7

Action 482332

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 482332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 482332

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 482332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	8/21/2025
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	8/21/2025