

May 7, 2025

**New Mexico Oil Conservation Division** 

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

Re: Closure Request

Big Eddy Unit 248H and 249H

Incident Numbers nAPP2418043567, nAPP2432147637, nAPP2432531235, &

nAPP2502042071

API: 30-015-40714 & 30-015-40715

**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 Big Eddy Unit 248H and Big Eddy Unit 249H (Site), where a total of four releases occurred on the same pad. The purpose of excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan* (*Work Plan*), was to address impacted soil from multiple releases of crude oil and produced water at the Site. XTO is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further remediation for Incident Numbers nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071.

### SITE DESCRIPTION AND RELEASE SUMMARY

All releases occurred in Eddy County, New Mexico (32.62087°, -103.83145°), at the Big Eddy Unit 248H and Big Eddy Unit 249H well pad. Release extent areas located west of the wellheads are located in Unit A, Section 35, Township 19 South, Range 31 East, and are associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). Release extent areas located east of the wellheads are located in Unit D, Section 36, Township 19 South, and Range 31 on State Trust Land managed by New Mexico State Land Office (NMSLO) under Lease ID V0-6323-0003.

### Incident Number nAPP2418043567

On June 21, 2024, the packing on the wellhead stuffing box failed, resulting in the release of approximately 5 barrels (bbls) of crude oil and 9 bbls of produced water onto the surface of the pad and lightly over-spraying the northwest area of the pad and surrounding pasture following the dominant wind direction that day. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on June 28, 2024. The release was assigned Incident Number nAPP2418043567.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

On September 20, 2024, XTO submitted a *Remediation Work Plan* (September 2024 Work Plan) to the NMOCD describing Site assessment and delineation activities completed. The September 2024 Work Plan proposed the following remediation activities:

- Excavation of an estimated 1,500 cubic yards of total petroleum hydrocarbon (TPH) and chlorideimpacted soil;
- The excavation will be backfilled and recontoured to match pre-existing conditions. Reclamation and reseeding of the on-pad area will occur during pad abandonment; and
- The area of investigation will continue to be monitored, and photo documentation of the vegetation will be included in the final *Closure Report*.

On November 6, 2024, NMOCD approved the September 2024 Work Plan with the following conditions:

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 from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge 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 release area will need confirmation floor/sidewall samples representing no more than 200 ft2. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Confirmation samples will need to be conducted at surface and at 0.5 feet in the "Area of Investigation" to ensure that contaminants didn't get carried/deposited in this area. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule.

On January 16, 2025, and after Site discussions with the NMOCD, XTO requested a sampling variance for the "area of investigation" confirmation floor soil sampling frequency of one composite sample to representing at most a 1,000 square foot area. The NMOCD approved the sampling variance the same day.

### Incident Numbers: nAPP2432147637, nAPP2432531235, and nAPP2502042071

On November 16, 2024, the packing on the stuffing box of the Big Eddy Unit 249H well failed, resulting in the release of approximately 10 bbls of crude oil onto the surface of the well pad. No fluids were recovered. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 16, 2024. The release was assigned Incident Number nAPP2432147637.

On November 19, 2024, an equipment failure at the Big Eddy Unit 248H wellhead resulted in the release of approximately 22 bbls of crude oil and 1 bbls of produced water onto the surface of the well pad. Four bbls of fluids were recovered. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 20, 2024. The release was assigned Incident Number nAPP2432531235.

On January 17, 2025, an equipment failure at the Big Eddy Unit 249H wellhead resulted in the release of approximately 33 bbls of crude oil and 29 bbls of produced water onto the surface of the pad. Approximately 35 bbls of fluids were recovered. Furthermore, approximately 73 thousand cubic feet (Mcf) of natural gas were vented during the release. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 20, 2024. The release was assigned Incident Number nAPP2502042071.

Ensolum conducted Site assessment and delineation activities following the three additional releases and presented the results in a Remediation Work Plan (*February 2025 Work Plan*) submitted on February 5, 2025. The *February 2025 Work Plan* was conditionally approved by the NMOCD on February 6, 2025. The approved *February 2025 Work Plan* proposed the following:

- Excavation of impacted soil across an estimated 34,375 square foot area on pad;
- Disposal of an estimated 3,800 cubic yards of impacted soil at the R360 landfill disposal facility;
   and
- Confirmation soil sampling completed in the area of investigation collected at a sampling frequency of every 1,000 square feet. Following discussion with the NMOCD this sampling frequency was confirmed on February 10, 2025. All other confirmation soil sampling within the excavation extent will be completed at a sampling frequency of every 200 square feet.

### SITE CHARACTERIZATION AND CLOSURE CRITERIA

As documented in the approved *September 2024 Work Plan and February 2025 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: 100 mg/kg
- Chloride: 600 mg/kg

### **EXCAVATION AND SOIL SAMPLING ACTIVITIES**

Between January 8 and March 2, 2025, Ensolum personnel were onsite to collect confirmation soil samples in the area of investigation and oversee excavation of impacted soil according to the approved *February 2025 Work* Plan. Composite soil samples CS01 through CS88 were collected from the area of investigation every 1,000 square feet from the surface by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. 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.

Excavation activities were performed by the use of heavy equipment. To direct excavation activities, soil was field screened for VOCs and chloride. Once field screening indicated impacted soil was adequately removed, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation extent. 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 FS110 were collected from the floor of the excavation at depths ranging from 1-foot to 8 feet bgs. Confirmation soil samples SW01 through SW14 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 7 feet bgs. The confirmation soil sample locations were mapped utilizing a handheld global positioning system (GPS) unit and are depicted on Figure 1. Photographic documentation of the excavation activities and final excavation extent is provided in Appendix A.

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-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

The final excavation extent measured approximately 30,200 square feet. A total of approximately 3,100 cubic yards of impacted soil were removed during the excavation activities. The impacted soil will be transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. Backfill activities are ongoing with material purchased locally and the Site will be recontoured to match pre-existing Site conditions.

### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for confirmation soil samples CS57, CS59, and CS60, collected at surface, indicated chloride and/or TPH concentrations exceeded Closure Criteria. Excavation was completed and the following excavation soil samples were collected: CS57A collected at 2 feet bgs, CS59 collected at 0.5 feet bgs, and CS60 collected at 0.5 feet bgs, and corresponding sidewalls SW04 through SW06 were collected from depths ranging from ground surface to 2 feet bgs. Laboratory analytical results for all final samples from the area of investigation indicated they were in compliance with Closure Criteria.

Laboratory analytical results for all final excavation confirmation soil samples indicated all COCs were in compliance with Closure Criteria, with the exception of excavation soil samples FS08, FS13, FS31, FS34, FS45, FS55, FS59, FS60, FS61, FS72, FS90, FS91, SW20, and SW23, which indicated chloride and/or TPH concentrations exceeded Closure Criteria. As a result, those areas that exceeded the Closure Criteria were excavated further and the subsequent confirmation soil samples were in compliance with the Closure Criteria. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix B.

### **CLOSURE REQUEST**

Excavation activities were conducted at the Site in accordance with the *February 2025 Work Plan* to address the four releases of crude oil and produced water. The approved February 4, 2025, *Work Plan* is included in Appendix C. Laboratory analytical results for all final excavation soil samples indicated all COC concentrations were compliant with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. Backfill is ongoing and the area will be recontoured to match pre-existing Site conditions.

Excavation of soil has removed impacted soil from the area. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Numbers nAPP2418043567, nAPP2432147637, nAPP2432531235, and nAPP2502042071.

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

Sincerely,

**Ensolum, LLC** 

Tracy Hillard Project Engineer Tacoma Morrissey Associate Principal

nouissey

cc: Ashley McAfee, XTO

Kaylan Dirkx, XTO

New Mexico State Land Office Bureau of Land Management

Appendices:

Figure 1 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Appendix A Photographic Log

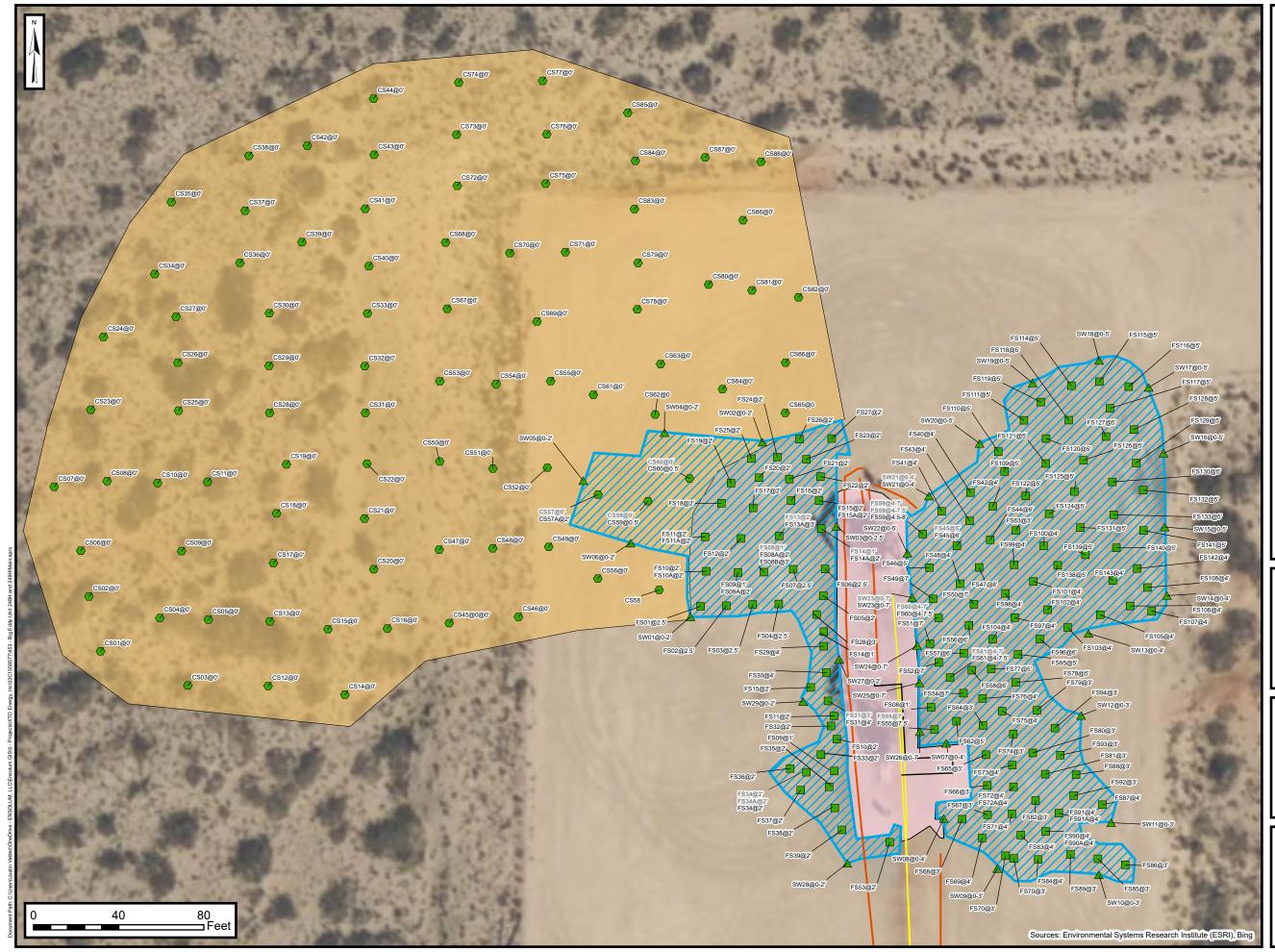
Appendix B Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix C February 4, 2025, Remediation Work Plan



**FIGURES** 

Received by OCD: 5/8/2025 12:00:15 AM



### Legend

- Confirmation Soil Sample in
  Compliance with Closure
- Excavation Floor Sample in
  Compliance with Closure
- Excavation Sidewall Sample in Compliance with Closure
- Electric Utility Line
- Oil and Gas Utility Line
- Surface Line
- Excavation Extent
- Area of Investigation
- Production Equipment

### **Excavation Soil Sample Locations**

XTO Energy, Inc Big Eddy Unit 248H and 249H Incident Number: nAPP2418043567, nAPP2432147637, nAPP2432531235, and nAPP2502042071

PP2432531235, and nAPP2502042071
Unit A, Section 35, T 19S, R 31E
Eddy County, New Mexico

## FIGURE





**TABLES** 



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 Cl	osure Criteria (l	NMAC 19.15.29)	10	50	NE NE	NE NE	NE NE	NE NE	100	600
				Conf	irmation Soil Sa	amnlas				
CS01	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS02	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS03	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS04	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS05	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS06	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS07	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS08	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS09	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS10	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS10	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS12	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS12	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS14	02/19/2025	Surface	<0.050	<0.300	<10.0	31.5	<10.0	31.5	31.5	<16.0
CS15	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS15	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS17	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS18	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS19	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS20	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS21	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS22	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS22 CS23	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS23	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS25	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS26	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS27	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS28	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
										<16.0
		<del> </del>				1				<16.0
										<16.0
						1				<16.0
CS29 CS30 CS31 CS32	02/19/2025 02/19/2025 02/19/2025 02/20/2025 02/20/2025	Surface Surface Surface Surface Surface	<0.050 <0.050 <0.050 <0.050	<0.300 <0.300 <0.300 <0.300	<10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0	



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 C	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
CS33	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS34	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS35	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS36	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS37	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS38	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS39	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS40	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS41	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS42	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS43	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS44	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS45	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS46	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS47	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS48	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS49	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS50	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS51	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS52	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
CS53	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS54	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS55	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
CS56	02/21/2025	Surface	<0.050	<0.300	<10.0	12.4	<10.0	12.4	12.4	64.0
CS57	02/21/2025	Surface	<0.050	<del>&lt;0.300</del>	<del>&lt;10.0</del>	128	50.3	128	178	<del>2,600</del>
CS57A	04/11/2025	2	< 0.050	<0.300	<10.0	27.7	<10.0	27.7	27.7	464
CS58	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS59	02/21/2025	Surface	<0.050	<del>&lt;0.300</del>	<del>&lt;10.0</del>	344	125	344	469	160
CS59	04/01/2025	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
CS60	02/21/2025	Surface	<0.050	<0.300	<10.0	651	282	651	933	48.0
CS60	04/01/2025	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS61	02/21/2025	Surface	<0.050	<0.300	<10.0	13.1	<10.0	13.1	13.1	64.0
CS62	02/21/2025	Surface	<0.050	<0.300	<10.0	50.0	<10.0	50.0	50.0	64.0



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 Cl	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
CS63	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS64	02/21/2025	Surface	<0.050	<0.300	<10.0	10.9	<10.0	10.9	10.9	32.0
CS65	02/21/2025	Surface	<0.050	<0.300	<10.0	85.7	10.2	85.7	95.9	160
CS66	02/21/2025	Surface	<0.050	<0.300	<10.0	13.2	<10.0	13.2	13.2	32.0
CS67	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS68	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS69	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS70	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS71	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS72	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS73	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS74	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS75	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS76	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS77	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS78	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS79	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS80	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS81	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS82	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS83	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS84	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS85	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS86	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS87	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS88	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
				Exca	avation Soil Sar	mples				
FS01	03/06/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS02	03/06/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS03	03/06/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS04	03/06/2025	2.5	<0.050	<0.300	<10.0	10.6	<10.0	10.6	10.6	304
FS05	03/06/2025	2	<0.050	<0.300	<10.0	17.7	<10.0	17.7	17.7	272
FS06	03/07/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160



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 C	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS07	03/07/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS08	03/06/2025	2	<0.050	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>127</del>	29.0	127	156	144
FS08	03/11/2025	3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS09	03/06/2025	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS10	03/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS11	03/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS12	03/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS13	03/06/2025	2	<0.050	<del>&lt;0.300</del>	<del>&lt;10.0</del>	113	<del>13.2</del>	113	126	144
FS13	03/11/2025	3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS14	03/06/2025	2	<0.050	<0.300	<10.0	26.9	<10.0	26.9	26.9	176
FS15	03/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS16	03/07/2025	2	<0.050	<0.300	<10.0	20.0	<10.0	20.0	20.0	160
FS17	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS18	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS19	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS20	03/07/2025	2	<0.050	<0.300	<10.0	29.2	<10.0	29.2	29.2	112
FS21	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS22	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS23	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS24	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS25	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS26	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS27	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS28	03/11/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS29	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS30	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS31	03/10/2025	3	<0.050	<0.300	<del>&lt;10.0</del>	83.4	19.1	83.4	103	128
FS31	04/17/2025	4	< 0.050	<0.300	<10.0	25.3	<10.0	25.3	25.3	240
FS32	04/04/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS33	03/11/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS34	03/11/2025	2	<0.050	<0.300	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	144
FS34	03/13/2025	2	<del>&lt;0.050</del>	<0.300	<del>&lt;10.0</del>	<del>252</del>	45.8	<del>252</del>	298	<del>352</del>
FS34	04/17/2025	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0



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 Cl	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS35	03/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS36	03/13/2025	2	<0.050	<0.300	<10.0	59.7	<10.0	59.7	59.7	160
FS37	03/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS38	03/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS39	03/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS40	03/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS41	03/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS42	03/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS43	04/04/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS44	03/17/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS45	04/11/2025	5	<0.050	<del>&lt;0.300</del>	<10.0	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	656
FS45	04/25/2025	6	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS46	04/04/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS47	03/17/2025	8	<0.050	<0.300	<10.0	13.9	<10.0	13.9	13.9	320
FS48	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS49	04/04/2025	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS50	04/10/2025	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS51	04/10/2025	7	<0.050	<0.300	<10.0	17.8	<10.0	17.8	17.8	64.0
FS52	04/10/2025	7	<0.050	<0.300	<10.0	13.9	<10.0	13.9	13.9	<16.0
FS53	03/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS54	04/10/2025	7	<0.050	<0.300	<10.0	13.4	<10.0	13.4	13.4	48.0
FS55	04/10/2025	7	<0.050	<del>&lt;0.300</del>	<del>&lt;10.0</del>	97.2	50.3	97.2	148	16.0
FS55	04/25/2025	7.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS56	03/13/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS57	03/13/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS58	03/13/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS59	03/17/2025	4-7	<0.050	<0.300	<10.0	36.2	<10.0	36.2	36.2	<del>752</del>
FS59	04/25/2025	4-7.5	<0.050	<del>&lt;0.300</del>	<10.0	92.3	10	92.3	102.3	80.0
FS59	05/02/2025	4.5-8	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS60	03/17/2025	4-7	<0.050	<0.300	<10.0	87.9	25.6	87.9	114	1,550
FS60	04/25/2025	4-7.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS61	03/17/2025	4-7	<0.050	<del>&lt;0.300</del>	<10.0	499	98.3	499	597	1,330
FS61	04/25/2025	4-7.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0



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 C	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS62	04/10/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS63	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS64	03/17/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS65	03/17/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS66	03/17/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS67	03/17/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS68	03/20/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS69	04/01/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS70	04/10/2025	3	<0.050	<0.300	<10.0	21.2	<10.0	21.2	21.2	32.0
FS71	04/01/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
FS72	04/01/2025	4	<0.050	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	< <del>10.0</del>	< <del>10.0</del>	560
FS72A	04/02/2025	4	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS73	04/02/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS74	03/20/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS75	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS76	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS77	04/11/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
FS78	04/11/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS79	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS80	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS81	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS82	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS83	04/02/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS84	04/02/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS85	04/10/2025	3	<0.050	<0.300	<10.0	25.3	<10.0	25.3	25.3	32.0
FS86	03/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS87	04/02/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS88	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS89	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS90	04/01/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS90A	04/02/2025	4	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS91	04/01/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
FS91A	04/02/2025	4	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320



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 C	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS92	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS93	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS94	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
FS95	04/10/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS96	04/11/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS97	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS98	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS99	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS100	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS101	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS102	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS103	04/11/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS104	04/11/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS105	03/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS106	03/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS107	03/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
FS108	03/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS109	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS110	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS111	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS114	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS115	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS116	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS117	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS118	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS119	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS120	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS121	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS122	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS124	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS125	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS126	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS127	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144



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 C	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS128	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS129	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS130	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS131	03/31/2025	5	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS132	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS133	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS138	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS139	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS140	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS141	03/31/2025	5	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS142	03/31/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS143	03/31/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW01	03/10/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW02	03/10/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW03	03/10/2025	0-2.5	<0.050	<0.300	<10.0	23.8	<10.0	23.8	23.8	112
SW04	04/11/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW05	04/11/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW06	04/11/2025	0-2	<0.050	<0.300	<10.0	29.7	<10.0	29.7	29.7	192
SW07	04/11/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW08	04/02/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW09	04/11/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW10	04/11/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW11	04/11/2025	0-3	<0.050	<0.300	<10.0	63.2	10.4	63.2	73.6	48.0
SW12	04/11/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW13	04/11/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW14	04/11/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW15	04/11/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW16	04/11/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW17	04/11/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW18	04/11/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW19	04/11/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW20	04/11/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW21	04/11/2025	0-4	<0.050	<0.300	<10.0	71.4	28.8	71.4	100	64.0



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 Cl	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
SW21	04/17/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW22	04/11/2025	0-5	<0.050	<0.300	<10.0	68.3	23.9	68.3	92.2	48.0
SW23	04/11/2025	0-7	<0.050	<del>&lt;0.300</del>	<10.0	87.2	36.6	8 <del>7.2</del>	124	32.0
SW23	04/25/2025	0-7	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW24	04/11/2025	0-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW25	04/11/2025	0-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW26	04/11/2025	0-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW27	04/11/2025	0-2	<0.050	<0.300	<10.0	22.5	<10.0	22.5	22.5	16.0
SW28	04/11/2025	0-2	<0.050	<0.300	<10.0	27.1	<10.0	27.1	27.1	32.0
SW29	04/11/2025	0-2	<0.050	<0.300	<10.0	33.2	<10.0	33.2	33.2	16.0

### 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** 

Photographic Log



### **Photographic Log**

XTO Energy, Inc Big Eddy Unit 248H and 249H nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071





Photograph: 1 Date: 2/19/2025 Description: Confirmation soil sampling activities

View: South

Photograph: 2 Date: 2/21/2025 Description: Confirmation soil sampling activities

View: North





Photograph: 3 Date: 3/5/2025

Description: Excavation activities

View: East

Photograph: 4 Date: 3/7/2025

Description: Excavation activities

View: Southeast



### **Photographic Log**

XTO Energy, Inc Big Eddy Unit 248H and 249H nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071





Photograph: 5 Date: 3/13/2025

Description: Excavation activities

View: North

Photograph: 6 Date: 3/18/2025

Description: Excavation activities

View: North





Photograph: 7 Date: 3/31/2025

Description: Excavation activities

View: South

Photograph: 8 Date: 4/1/2025

Description: Excavation activities

View: East



### **Photographic Log**

XTO Energy, Inc Big Eddy Unit 248H and 249H nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071





Photograph: 9 Date: 4/1/2025

Description: Excavation activities

View: South

Photograph: 10 Date: 4/2/2025

Description: Excavation activities

View: Northeast





Photograph: 11 Date: 4/10/2025

Description: Excavation activities

View: North

Photograph: 12 Date: 4/25/2025

Description: Excavation activities

View: Northwest



APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation



May 05, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 05/02/25 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 05/02/2025 Reported: 05/05/2025

05/05/2025 Sampling Type: BIG EDDY UNIT 248H & 249H Sampling Condit

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO 32.62085,-103.83132

Sampling Date: 05/02/2025

Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

### Sample ID: FS 59 4.5-8' (H252640-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2025	ND	1.78	89.1	2.00	10.1	
Toluene*	<0.050	0.050	05/02/2025	ND	1.87	93.6	2.00	10.9	
Ethylbenzene*	<0.050	0.050	05/02/2025	ND	1.86	92.8	2.00	11.9	
Total Xylenes*	<0.150	0.150	05/02/2025	ND	5.48	91.3	6.00	12.2	
Total BTEX	<0.300	0.300	05/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/02/2025	ND	480	120	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2025	ND	209	104	200	2.83	
DRO >C10-C28*	<10.0	10.0	05/02/2025	ND	198	99.2	200	2.82	
EXT DRO >C28-C36	<10.0	10.0	05/02/2025	ND					
Surrogate: 1-Chlorooctane	80.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	76.0	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



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



(575) 393-2326 F	(575) 393-2326 FAX (575) 393-2476				1
Company Name: Ensolum, LLC		BILL TO		ANALTOIS REGUES!	JEST
Project Manager: Tracy Hillard		P.O. #:			
Address: 601 N Marienfeld Street, Suite 400	uite 400	Company: XTO Energy, Inc.	inc		
City: Midland	State: TX Zip: 79701	Attn: Colton Brown			
Phone #: 575-937-3906	Fax#:	Address: 3104 E Greene	IS a		
Project #: //361558453	Project Owner: XTO Energy	City: Carlsbad			
Project Name: Bir Edde Wart	196118 7494 -SPILLS	State: NM Zip: 88220	0		
Project Location: 32.62085 -103.83132	-103.83132	Phone #:			
Sampler Name: Evan Roe		Fax #:			
Lab I.D. Sample I.D.	(feet)  (Feet)	THER:  CID/BASE:  E/COOL \ THER:  SAMPLING	TPH 8015 BTEX 8021 Chloride 4500		
£5 5 9	<	x.t.5 /	0 V V V		
PLEASE NOTE: Leadily and Densayer, Cardoul's liability and discit existions were analyses. All claims, including those for negligence and any other cause administration survice, in no exert shall Cardoul be liable for incidental or care-equinital dismayors.	ed) for any dein shall be desired including refrout	schael whether based is contribut in birt shall be limited to the employing being washed unless made in wating and incoloned by Carolinal within 30 days after limitation, business trientappines, less of use, or local of public encurred by limitation, business trientappines.	unt paul by the stient for the ye after completion of the applicable pd by client, is inhandshires.		
Rollinguished By:	Received By:		Verbal Result:   Yes   No   Add1 Phone   All Results are emailed. Please provide Email add   Bealigensolum.com, Thorrissey@ensolum.com,   Hilland@ensolum.com, KThornason@ensolum.com	☐ No Add'! Phone #: Please provide Email address: Aorrissey@ensolum.com, (Thomason@ensolum.com)	
	Date: Received By:		REMARKS: Incident Number Cost Center: 1 1 GFCM: 4860500	Incident Number: Cost Center: 1 140 201001 GFCM: 48605000	NAPP2432147637 NAPP2432147637 NAPP2432531235 NAPP2502042071
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Contract Tamp: 'C - 12 Cool Intact C	dition CHECKED BY:	Turnaround Time: Standard  AP 6:3-85  Thermometer ID #139+144  Thermometer ID #139+144  Thermometer ID #139+144  Thermometer ID #139+144	KIN	Bacteria (only) Sample Condition Cool Intact Observed Temp. *C  Yes Yes No Corrected Temp. *C



February 26, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 02/20/25 14:02.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

A ..... I ..... . J D. ... 711

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 01 SURFACE (H251014-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.06	103	2.00	5.08	
Toluene*	<0.050	0.050	02/22/2025	ND	2.12	106	2.00	4.76	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.19	109	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.70	112	6.00	4.34	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



### Analytical Results For:

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

Received: 02/20/2025 Reported:

02/26/2025

Project Name: **BIG EDDY UNIT 248H** Project Number: 03C1558453

Project Location: XTO 32.08526-103.93856 Sampling Date: 02/19/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

### Sample ID: CS 02 SURFACE (H251014-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.06	103	2.00	5.08	
Toluene*	<0.050	0.050	02/22/2025	ND	2.12	106	2.00	4.76	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.19	109	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.70	112	6.00	4.34	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	18						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 03 SURFACE (H251014-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.06	103	2.00	5.08	
Toluene*	<0.050	0.050	02/22/2025	ND	2.12	106	2.00	4.76	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.19	109	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.70	112	6.00	4.34	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	18						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 04 SURFACE (H251014-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2025	ND	2.06	103	2.00	5.08	
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76	
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34	
Total BTEX	<0.300	0.300	02/23/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Sample Received By:

### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025 Reported: 02/26/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Tamara Oldaker

Project Location: XTO 32.08526-103.93856

03C1558453

### Sample ID: CS 05 SURFACE (H251014-05)

Project Number:

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2025	ND	2.06	103	2.00	5.08	
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76	
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34	
Total BTEX	<0.300	0.300	02/23/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8	% 49.1-14	18						

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### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 06 SURFACE (H251014-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2025	ND	2.06	103	2.00	5.08	
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76	
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34	
Total BTEX	<0.300	0.300	02/23/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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### Analytical Results For:

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

 Received:
 02/20/2025
 Sampling Date:
 02/19/2025

 Reported:
 02/26/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 07 SURFACE (H251014-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2025	ND	2.06	103	2.00	5.08	
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76	
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34	
Total BTEX	<0.300	0.300	02/23/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Reported: 02/26/2025

Project Name: BIG EDDY UNIT 248H

Project Location: XTO 32.08526-103.93856

03C1558453

Sampling Date: 02/19/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: CS 08 SURFACE (H251014-08)

Project Number:

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2025	ND	2.06	103	2.00	5.08	
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76	
Ethylbenzene*	< 0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34	
Total BTEX	<0.300	0.300	02/23/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 09 SURFACE (H251014-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2025	ND	2.06	103	2.00	5.08	
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76	
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34	
Total BTEX	<0.300	0.300	02/23/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
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	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 10 SURFACE (H251014-10)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2025	ND	2.06	103	2.00	5.08	
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76	
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34	
Total BTEX	<0.300	0.300	02/23/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.6	% 49.1-14	8						

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### Analytical Results For:

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

 Received:
 02/20/2025
 Sampling Date:
 02/19/2025

 Reported:
 02/26/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 11 SURFACE (H251014-11)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	< 0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	QM-07, QR-03
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	QM-07, QR-03
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	86.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 12 SURFACE (H251014-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
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	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	93.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 13 SURFACE (H251014-13)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.3	% 49.1-14	8						

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Celeg D. Keene



### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 14 SURFACE (H251014-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 5	% 71.5-13	4						
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	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	31.5	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.08526-103.93856

mg/kg

### Sample ID: CS 15 SURFACE (H251014-15)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.6	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 16 SURFACE (H251014-16)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 17 SURFACE (H251014-17)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 18 SURFACE (H251014-18)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.08526-103.93856

mg/kg

### Sample ID: CS 19 SURFACE (H251014-19)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	90.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Reported: 02/26/2025

Project Name: BIG EDDY UNIT 248H

Project Number: 03C1558453

Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: CS 20 SURFACE (H251014-20)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	< 0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.1	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 02/20/2025 Reported: 02/26/2025

BIG EDDY UNIT 248H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: CS 21 SURFACE (H251014-21)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	< 0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Reported: 02/26/2025

Project Name: BIG EDDY UNIT 248H

Project Number: 03C1558453

Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: CS 22 SURFACE (H251014-22)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	< 0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 23 SURFACE (H251014-23)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 71.5-13	14						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	34						
Surrogate: 1-Chlorooctadecane	91.0	% 49.1-14	18						
Surrogate: 1-Chlorooctadecane	91.0	% 49.1-14	18						

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### Analytical Results For:

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

Received: 02/20/2025 Reported: 02/26/2025

Project Name: **BIG EDDY UNIT 248H** 

Project Number: 03C1558453

Project Location: XTO 32.08526-103.93856 Sampling Date: 02/19/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: CS 24 SURFACE (H251014-24)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Reported: 02/26/2025

Project Name: BIG EDDY UNIT 248H

Project Number: 03C1558453

Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: CS 25 SURFACE (H251014-25)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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02/19/2025

### Analytical Results For:

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

Received: 02/20/2025 Sampling Date:

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 26 SURFACE (H251014-26)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	90.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

### Sample ID: CS 27 SURFACE (H251014-27)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	< 0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.2	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Reported: 02/26/2025

Project Name: BIG EDDY UNIT 248H

Project Number: 03C1558453

Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: CS 28 SURFACE (H251014-28)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	< 0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	216	108	200	1.49	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	200	100	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/20/2025 Reported: 02/26/2025

Project Name: BIG EDDY UNIT 248H

Project Number: 03C1558453

Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: CS 29 SURFACE (H251014-29)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	216	108	200	1.49	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	200	100	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.08526-103.93856

mg/kg

### Sample ID: CS 30 SURFACE (H251014-30)

BTEX 8021B

DILX GOZID	mg/	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Total BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	216	108	200	1.49	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	200	100	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.5	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



### **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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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Celeg D. Keene

† Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsin/n.com

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	L	(a.a) 000 - 000 - 000 (010) 000-2410	410				
Company Name:	Ensolum, LLC			BILL TO	9		ANALYSIS REQUEST
Project Manager: Tracy Hillard	: Tracy Hillard			P.O. #:			
Address: 3122 I	Address: 3122 National Parks Hwy	łwy /		company: XTO Energy Inc.	ergy Inc.		
city: Carlsbad	a	State: NM	Zip: 88220	Attn: Colton Brown			
Phone #: 575-	575-937-3906	Fax#:		Address: 3104 E. C	Greene St.		
Project #: 03C	03C1558453	Project Owner:	r XTO	city: Carlsbad			
Project Name: B	Project Name: Big Eddy Unit 248H			State: NM Zip: 88220	220		
Project Location	Project Location: 32.08526, -103.93856	93856		- 1		_	
Sampler Name:	Azad Vojdani			Fax #			
FOR IVE BE ONLY			MATRIX	ESERV.	SAMPLING		
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX	TPH CHLORIDE	
1	(56)	Sufface	J	100	0	3	
2	C502		/	7 /		1	
Cvi	CSOS		7 1	,	1.360		
4	6504				0954 V	7	
3	2057				1250		
6	6506		- ~	/	1000	1 1	
7	CSOF				1003	7 7	
000	2053		,		1000	1111	
7	CSOT			5	1006	7 1	
LEAGE NOTE: Luciely and C	CS 1/G Damages, Cardinal's lability and	den'il estitate nemoti for any	dam arang waster troops a contact or	V V	1004	1	
rafysers. All chains including those for negligence an malos. In no event ahall Centinal be liable for ascistor filleties of isoconsons wising out of or related to the p		er cause whatcover shall be deemed waived unless mequentif demages, including without limitation, how not of services hisrounder by Caudinal, enquelless of w	made in widing spiriture is small spiriture in wide spiriture in w	and remained by Cardoul saltie 30 days a a, loss of use, or box of profits incurred by in is besed soon any of the above status	ter completion of the applications, the subsidiaries,	strie	
Relinquished By	R	Date:	Received By:		Verbal Result:  All Results are ema TMorrissey@enso	☐ Yes X No emailed. Please pro ensolum.com, Thilan	Verbal Result: D Yes IX No   Add'l Phone #: All Results are emailed. Please provide Email address: TMorrissey@ensolum.com, Thillard@ensolum.com, AVojdani@ensolum.com
Relinquished By:	,	Date: Time:	Received By:		REMARKS: Incident # ru	MARKS: Incident # nAPP2418043567	CC P1140201001
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Carragiant Tamp "C	10 g/g	on CHECKED BY:	Turnaround Time:	e: Standard	Bacteria (only) S Cool Intact  Cool Intact  Yes
N BOO-WHO!	3.2 10/07/2		1 00 1 NO	1	Correction Factor	A Toron	I No No Corrected Temp, "C

Relinquished by

Date:

Time:

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	10/0/ 000-COLD LWV (0/0) 283-58/8	AV (010) 383-54	176					
Company Name:	Ensolum, LLC			BILL TO		1		ANALYSIS REQUEST
Project Manager: Tracy Hillard	r: Tracy Hillard			P.O.#		4	+	- 1
Address: 3122	Address: 3122 National Parks Hwy	Ŋ		Company: XTO Energy Inc.	iray Inc.	_		
city: Carlsbad	ad	State: NM	Zip: 88220	Attn: Colton Brown	4	_		
Phone #: 575-	575-937-3906	Fax#:		Address: 3104 E. Greene	reene St.	_	_	
Project #: 030	03C1558453	Project Owner: XTO	: XTO	city: Carlsbad		_	_	
Project Name: E	Project Name: Big Eddy Unit 248H			State: NM Zip: 88220	220	_		
Project Location	Project Location: 32.08526, -103.93856	3856				_	_	
Sampler Name:	Azad Vojdani			Fax#:		_	_	
FOR URLUST ONLY			MATRIX	ESERV	SAMPLING	_	_	
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	JME	BTEX	CHLORIDE	
11	(SII	Surface	/	V 00	612	2	2	
12	CSiZ				1015	_	/	
13	CS13				1018		1.	
14	CS 14		7	/	1021		1	
15	5157				1024 V		7 7	
16	CSIL		-	_	1026	\ \	1	
17	COIF		-	1 /	1030	\ \		
18	CSIB		//		1032	1	10	
19	C\$19		1 1		1034 V	_	4	
20	C520	<	<	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1036		-	
PLEASE NOTE: Lability and analyses. All claims: Holuding service. In no event shall Caro	Damages, Cardinat's listally and dis- those for nephysics and any attent dnat be listed for assistantial or card.	The exclusive servedy for any claims areas whethereoper shall be described and described and before any claims and any claims are any claims and any claims are also as a claim and a claim and and and and and and and and	only for any daint allering whether based in potential and the desirated watered unless making in writing as and other and the state of	corror, shall be limited to the amount of received by Cardinal within 30 days.	the ways capping any of the set	that .	1	
Relinquished By	and of or related in the performance	Date:	Received By	m a beset upon any of the above stated in	Verbal Result:		□ Yes □	□ No Add'I Phone #:
1	1	0000		111111111	All Results an	e email	ed. Pleas	All Results are emailed. Please provide Email address:

(Initials)

Turnaround Time

REMARKS:

Incident #:nAPP2418043567

8

P1140201001

Cool Intact
Yes Yes

Corrected Temp. °C

Bacteria (only) Sample Condition Cool Intact Observed Temp. \*C TMorrissey@ensolum.com, Thillard@ensolum.com, AVojdani@ensolum.com

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

			ŀ								
company vame.	Ensolum, LLC				BILL TO				ANALYSIS I	REQUEST	
Project Manage	Project Manager: Tracy Hillard				P.O.#:						
Address: 3122	Address: 3122 National Parks Hwy	Ŋ			Company: XTO Energy Inc.	rgy Inc.		_			
city: Carlsbad	ad	State: NM	Zip:	Zip: 88220	Attn: Colton Brown			_	_		
Phone #: 575	575-937-3906	Fax#:			Address: 3104 E. G	Greene St.			_		
Project #: 03	03C1558453	Project Owner: XTO	XTC	0	city: Carlsbad				_		
Project Name:	Project Name: Big Eddy Unit 248H	2574			State: NM Zip: 88220	20		_			
Project Locatio	Project Location: 32.08526, -103.93856	93856			*				_		
Sampler Name:	Azad Vojdani				Fax #:				_		
FOR LAB USE DALY			MP.	MATRIX	PRESERV. SAN	SAMPLING					
Lab I.D. HES 1814	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OME # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX	TPH	CHLORIDE			
٠ ع	(521	Surface	7	<	0	_	Ì	<			1
22	CS22	-	-	<	\			_			
23	CS23				, ,	1226 V		_			
24	C524		_	1		1228 J	_	-			
52	(525)			\ \		(230 /	4	4			
26	CS 26		-	_		1232	_	_			
22	CS 27		-	_	~	1234		-			
25	C\$28		=		~	1236		V			
29	CS 29		=	~	/ /	1238 )	7	_			
PLEASE NOTE: Labelly and	CS30	W Variable remark for any diam	OLD WATER	o Design of Devel (equal or	of or lot, shall be similed in the amount pa	(240 V	۷.	<			
service. In no event shall Cardinal be lable for affiliates or successors among out of an initiates	ervice. It no event shall Ceratinal to liable for excludingly or conse effects or successors areany out of an elatey of the performance	cause whatsever was be de- quential diamages, including w of services haraunder by Can	Street was Should live Small rings	wid unless made in writing and in fation, business interruptions, to artifess of whether such claim is	ver visual se destinate automat uniones muste in witting and incorrent by Cardinals wittin 30 clays after compidions of the application ret, including wittinos (in Intellion, incorrence streampletons, tops of ours, or income for paths incorrent by client is instelled intellion. In a minister in the contract of the contract of the advantage country of the advantage of the advantage country of t	s effer completion of the applica City offert, its subsidiaries, of researce or otherwise,	- 1				
wanted sky:		Time:	Rece	Received By	Maller	Verbai Result:   All Results are emailed  TMorrissey@ensolum	mailed. I	. Please pro	Verbal Result:	es K No  Add'l Phone #: f. Please provide Email address: n.com, Thilland@ensclum.com, AVojdani@ensclum.com	
Relinquished By		Ц,	Recen	Received By:	James	REMARKS: Incident # nAPP2418043567	pp241	8043567	CC 91140201001		
Delivered By: (Circle One)		Onnered Temp C	2	Sample Condition	Q	Turnaround Time:		Standard	Bacteria (o	60	
Sampler - UPS - Bus - Other	Bus - Other: C.	Temp Temp 's	19	× 9/	Simons	Thermometer ID	7	4/4	Yes Yes	Yes Connected Temp. "C	



February 27, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 02/24/25 12:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



02/20/2025

### Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 31 SURFACE (H251071-01)

BTEX 8021B	mg/	'kg	Analyze	d 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	1.91	95.5	2.00	1.72	
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	94.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 32 SURFACE (H251071-02)

BTEX 8021B	mg	/kg	Analyze	d 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	1.91	95.5	2.00	1.72	
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 33 SURFACE (H251071-03)

BTEX 8021B	mg,	'kg	Analyze	d 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	1.91	95.5	2.00	1.72	
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	98.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

Project Name: BIG EDDY UNIT 248H

Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: CS 34 SURFACE (H251071-04)

BTEX 8021B	mg	/kg	Analyze	d 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	1.91	95.5	2.00	1.72	
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 35 SURFACE (H251071-05)

BTEX 8021B	mg,	'kg	Analyze	d 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	1.91	95.5	2.00	1.72	
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

Project Name: BIG EDDY UNIT 248H

Project Location: XTO 32.62085-103.83132

03C1558453

Sampling Date: 02/20/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: CS 36 SURFACE (H251071-06)

Project Number:

BTEX 8021B	mg	/kg	Analyze	d 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	1.91	95.5	2.00	1.72	
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

BIG EDDY UNIT 248H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: CS 37 SURFACE (H251071-07)

BTEX 8021B	mg	/kg	Analyze	d 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	1.91	95.5	2.00	1.72	
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	99.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	18						

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### Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

BIG EDDY UNIT 248H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: CS 38 SURFACE (H251071-08)

BTEX 8021B	mg	/kg	Analyze	d 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	1.91	95.5	2.00	1.72	
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	18						

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

### Sample ID: CS 39 SURFACE (H251071-09)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2025	ND	1.91	95.5	2.00	1.72	
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

Project Name: **BIG EDDY UNIT 248H** 

Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132 Sampling Date: 02/20/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: CS 40 SURFACE (H251071-10)

BTEX 8021B	mg/	'kg	Analyze	d 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	1.91	95.5	2.00	1.72	
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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02/20/2025

### Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact

Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 41 SURFACE (H251071-11)

BTEX 8021B	mg	/kg	Analyze	d 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	1.91	95.5	2.00	1.72	
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	18						

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 42 SURFACE (H251071-12)

BTEX 8021B	mg,	'kg	Analyze	d 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	1.91	95.5	2.00	1.72	
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: CS 43 SURFACE (H251071-13)

BTEX 8021B	mg	/kg	Analyze	d 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	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celeg D. Keene



### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

### Sample ID: CS 44 SURFACE (H251071-14)

BTEX 8021B

	9/	·-9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

BIG EDDY UNIT 248H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: CS 45 SURFACE (H251071-15)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
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	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keine



### Analytical Results For:

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

 Received:
 02/24/2025
 Sampling Date:
 02/20/2025

 Reported:
 02/27/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 46 SURFACE (H251071-16)

BTEX 8021B	mg,	/kg	Analyze	d 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	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.8	% 49.1-14	8						

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Celey D. Keine



Shalyn Rodriguez

Sample Received By:

### Analytical Results For:

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

 Received:
 02/24/2025
 Sampling Date:
 02/20/2025

 Reported:
 02/27/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact

Project Location: XTO 32.62085-103.83132

03C1558453

### Sample ID: CS 47 SURFACE (H251071-17)

Project Number:

BTEX 8021B	mg,	/kg	Analyze	d 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	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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### Analytical Results For:

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

 Received:
 02/24/2025
 Sampling Date:
 02/20/2025

 Reported:
 02/27/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

### Sample ID: CS 48 SURFACE (H251071-18)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil Project Name: **BIG EDDY UNIT 248H** Sampling Condition:

Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 49 SURFACE (H251071-19)

BTEX 8021B	mg/	/kg	Analyze	d 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	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 71.5-13	4						
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	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: CS 50 SURFACE (H251071-20)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 71.5-13	4						
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	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 51 SURFACE (H251071-21)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
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	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	82.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

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02/20/2025

Soil

### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: Reported: 02/27/2025 Sampling Type:

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 52 SURFACE (H251071-22)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

### Sample ID: CS 53 SURFACE (H251071-23)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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### Analytical Results For:

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

 Received:
 02/24/2025
 Sampling Date:
 02/20/2025

 Reported:
 02/27/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 54 SURFACE (H251071-24)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

### Sample ID: CS 67 SURFACE (H251071-25)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 68 SURFACE (H251071-26)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 72 SURFACE (H251071-27)

BTEX 8021B	mg/kg  Result Reporting Limit		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	110 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 %	6 49.1-14	8						

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02/20/2025

Soil

### Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 73 SURFACE (H251071-28)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	< 0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 74 SURFACE (H251071-29)

RTFY 8021R

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	02/27/2025	ND	2.06	103	2.00	0.0715	
<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
<0.300	0.300	02/27/2025	ND					
95.3	% 71.5-13	4						
mg/	'kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
<10.0	10.0	02/25/2025	ND					
102 5	% 48.2-13	4						
106	% 49.1-14	8						
	<0.050 <0.050 <0.050 <0.150 <0.300  95.33  mg/  Result <16.0  mg/  Result <10.0 <10.0 <10.0	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 95.3 % 71.5-13 mg/kg Result Reporting Limit <16.0 16.0 mg/kg Result Reporting Limit <16.0 10.0 <10.0 10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Cardinal Laboratories \*=Accredited Analyte

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

AD ANALYSIS REQ

Company Name: Ensolum, LLC	Fosolim IIC					
Project Manager: Tracy Hillard	r: Tracy Hillard			BILL TO		ANALYSIS REQUEST
	Tracy mian			P.O. #:		
Address:601 N	Marienfeld St	Address: 601 N Marienfeld Street, suite 400		Company: XTO Energy	ygy	
city: Midland		State: TX	Zip: 79701	Attn: Colton Brown		
Phone #: 575-937-3906	37-3906	Fax #:		Address:		
Project #: 03C1558453	1558453	Project Owner:	ň	City:		
Project Name: B	Project Name: Big Eddy Unit 248H			MN		
Project Location	Project Location: 32.62085,-103,83132	3.83132		Commercial Alp.		
0	Irial Cantillana	0.00		Phone #:		
Sampler Name: Onei Santilana	unei Santilana			Fax #:	e	
ATMO 380 BY Lacy			MATRIX	PRESERV. SAN	SAMPLING X	
Lab I.D. AbS/071	Sample I.D.	Depth (feet)	G)RAB OR (C)OME CONTAINERS GROUNDWATER WASTEWATER GOIL DIL BLUDGE	OTHER: CE/COOL OTHER:	Chlor. BTE: TPH	
-	C531	Sufface	X	X	-	
2	C532		-		1055	
O.	C533				100	
4	6534				1105	
	444				}	
Cr	C535				01111	
6	C536				5	
7	(537				1120	
000	6238				1125	
7	C539		U & U	e •	1130	
analyses. All claims including the service. In no exert shall Cardina affiliation or accommon areas.	cluding these for negligence and any sill Cardinal be liable for incidental or	other cause whatsoever shall be done	med waved unless most imbation, busi	i based in continuit of furt, strail be limited to the amount paid by made in writing and sectioned by Cardinal within 30 days after our sens interruptions, fow of use, or loss of profits incurred by claims.	of by the claims for the ir completion of the applicable Stant the substitution.	
Relinquished By:	7	Date 1.05	Received By:	hased upon any of the above stated re	Verbal Result:   Yes   No	
4	and	Time: 1830	Spedkigner	Les Y	All Results are emailed. Please provide Email address: thillard@ensolum.com kthomason@ensolum.com	thillard@ensolum.com kthomason@ensolum.com usantillana@ensolum.com
Relinquished By:		Date: Time:	Received By:	0	REMARKS: Cost Code: 1140201001	Incident Number nAPP2418043567
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	de One) us - Other:	Carreyand Tame, "C	0.7 Sample Condition	CHECKED BY:	Turnargund Time: Standard	Bacteria (only) Sample Condition Cool Intact Observed Temp. *C
N. DODGOOD A.	27 1007/21			-	14	No Corrected Tomp. *C

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Company Name: Ensolum, LLC			BILL TO	
Project Manager: Tracy Hillard	r: Tracy Hillard			P.O. #:	
Address: 601 N	Address: 601 N Marienfeld Street, suite 400	et, suite 400		Company: XTO Energy	DIVIL
city: Midland		State: TX	Zip: 79701	Attn: Colton Brown	40
Phone #: 575-937-3906	37-3906	Fax #:		Address:	
Project #: 03C1558453	1558453	Project Owner:	or:	City:	
Project Name: B	Project Name: Big Eddy Unit 248H			State: NM Zin:	
Project Location	Project Location: 32.62085,-103.83132	.83132			
Sampler Name: Uriel Santillana	Uriel Santillana			T money at	>
Sample Maile.	Circi Continuona			Fax #:	0
FOR URBURN ONLY			MATRIX	PRESERV. SA	1
Lab I.D. Hosioti	Sample I.D.	Depth (feet)	(G)RAB OR (C)OME CONTAINERS GROUNDWATER WASTEWATER SOIL DIL GLUDGE	OTHER: CCE/COOL OTHER:	Ch lor
10	0450	Surface	X	X X X	apart .
12	1450	_			1140
ان	C543	+			145
14	6944				1155
10	CHCO				1200
16	Shes				1205
21	4 460				1210
OX	8 h CO	-			1215
PLEASE NOTE: Liebby and	Cartery Business	6	4	·	1220 + 1
analyses. All dains actually by service. In no event ahall Cardin stillades to successors among ou	one for a	her cause whatsoever shall be of nesquental demages, including title of techtors herwander by Co	y cam ara kenad wai wifoot ind	any whether based is consisted or but, what he limited to the amount paid and when he had no well-up and unless made in writing and isocowed by Castinal within 30 days when bidion, budieses interruptions, loss of use, or loss of profile incurred by characters and a whiteless when the contract of the characters are a second to the characters are a second to the characters.	paid by the disect for the after completion of the applicable by steed, his extenditures,
wellinguished by:	- But	Sehen Sehen	Received By:	triginal	Verbal Result:   12 Yes   12 No   AddTPhone #:   All Results are emailed. Please provide Email address:   Hallard@ensolum.com   kthomason@ensolum.com   usantillana@ensolum.com
Kelinquished By:		Date: Time:	Received By:		REMARKS: Cost Code: 1140201001
Delivered By: (Circle One) Sampler - UPS - Bus - Other		Currence Temp. 1C	0.7: Sample Condition Cool Intact	on CHECKED BY:	Turnaround Time: Standard Standard Rush Thermometer in 1997
N DOORWANDS	120,0001 7.5		1		Correction Castar - Co.C.

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

AND ANALYSIS REQUE

Sampler - UPS - Bus - Other	y de nousellanders	A A	realized. At dame including to service. In so event shall Cardio afficient or successors similar or successors	PLEASE NOTE: Listally and E	200	36	36	50	17	1 2	35	25	30	120152H	Lab I.D.	POR LABOR DROY	Sampler Name: Uriel Santillana	Project Location	Project Name: B	Project #: 03C1558453	Phone #: 575-937-3906	city: Midland	Address: 601 N	Project Manager: Tracy Hillard	Company Name
		2	hose for regigance and any other real be liable for existential or opn out of or releated to the performan	Demogras Cardinal's labelity and	54 60	7460	000	+0000C)	hC Co	5550	7.557	1567	0560		Sample I.D.		Jriel Santillana	Project Location: 32.62085,-103.83132	Project Name: Big Eddy Unit 248H	558453	37-3906		Address: 601 N Marienfeld Street, suite 400	r: Tracy Hillard	company Name: Ensolum, LLC
O	Date:	व्यक्तिकर	er cause whatsower shall be a sequental damages, esticates or of services hereupder by o	clear's exclusive perpedy for any dam									Barrons		Depth (feet)			83132	Ĩ	Project Owner:	Fax#:	State: TX	et, suite 400		
Sample Condition Cool Intact	Received By:	Spedie		Commercial water to the									1	# CC	RAB OR (C)OMP ONTAINERS OUNDWATER STEWATER L	MATRIX				ar.		Zip: 79701			
dition CHECKED BY:	0	ques	and Aspaked by Caudinal willion to a, loss of use, or loss of profits but as a based open any of the above	6									X 2/1	OTH ACIE ICE OTH	O/BASE:	PRESERV.	Fax #:	Phone #:	State: NM Zip:	City:	Address:	Attn: Colton Brown	Company: XTO Energy	P.O. #:	BILL
1000	Cost Code: 1	Verbal Result: C All Results are ema thillard@ensolum.	or the amount paid by the claim for the spa- within 30 days after completion of the applic profits incurred by client, its subsidiaries. In althory stated reasons or otherwise.	-	1310	1305	1300	1255	1245	0421	1235	1230	2/20/45 1225	DATE TIME		SAMPLING			9:			rown	Energy		BILL TO
Turnaround Time: Standard	le: 11		applicativ	+								-	XXX	_	CMOR BTE TPH	X	9	-							
	Incident Numbe	I Yes I No Add'I Phone #: illed. Please provide Email address: .com kthomascn@ensolum.com us																							ANALYSIS R
Bacteria (only) Sample Condition Cool Intact Observed Temp, *C	Incident Number nAPP2418043567	] Yes □ No  AddTPhone#: illed, Please provide Email address; com kthomason@ensolum.com usantillana@ensolum.com																						- COLO	RECHEST



February 27, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 02/24/25 12:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



02/21/2025

### Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact

Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

A ... - b ... - d D. .. 711

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 88 SURFACE (H251072-01)

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	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 87 SURFACE (H251072-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	< 0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 86 SURFACE (H251072-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	8						

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Celey D. Keene



02/21/2025

### Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 85 SURFACE (H251072-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.5	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 81 SURFACE (H251072-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

03C1558453

Project Name: BIG EDDY UNIT 248H

Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: CS 82 SURFACE (H251072-06)

Project Number:

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

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Celeg D. Keine



### Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

Project Name: **BIG EDDY UNIT 248H** 

Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132 Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: CS 84 **SURFACE (H251072-07)**

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	< 0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	94.7 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1 <b>-</b> 14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: CS 83 SURFACE (H251072-08)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.7	% 49.1-14	8						

Applyzod By: 14

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 80 SURFACE (H251072-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	83.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil Project Name: **BIG EDDY UNIT 248H** Sampling Condition:

Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 79 SURFACE (H251072-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	81.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.6	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

### Sample ID: CS 78 SURFACE (H251072-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	84.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.1	% 49.1-14	8						

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### Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

### **Sample ID: CS 77 SURFACE (H251072-12)**

RTFY 8021R

Result <0.050 <0.050	Reporting Limit 0.050	Analyzed 02/27/2025	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050	02/27/2025						•
<0.050		, ,	ND	1.88	93.9	2.00	0.883	
	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
<0.300	0.300	02/27/2025	ND					
95.4	% 71.5-13	4						
mg/	kg	Analyze	d By: CT					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	02/25/2025	ND	416	104	400	3.77	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
<10.0	10.0	02/25/2025	ND					
97.8	% 48.2-13	4						
98.0	% 49.1-14	8						
	<0.050 <0.150 <0.300  95.44  mg/  Result  32.0  mg/  Result <10.0 <10.0  97.84	<0.050 0.050 <0.150 0.150 <0.300 0.300  95.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050       0.050       02/27/2025       ND       1.88       94.0       2.00       1.15         <0.150

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Celeg D. Keene



# Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

# **Sample ID: CS 76 SURFACE (H251072-13)**

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.7	% 49.1-14	8						

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Celey D. Keine



Shalyn Rodriguez

# Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact

Project Number: 03C1558453 Sample Received By: Project Location: XTO 32.62085-103.83132

# **Sample ID: CS 75 SURFACE (H251072-14)**

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	18						

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Celey D. Keine



# Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

Project Name: BIG EDDY UNIT 248H

Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

# Sample ID: CS 71 SURFACE (H251072-15)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keine



02/21/2025

# Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

# **Sample ID: CS 70 SURFACE (H251072-16)**

RTFY 8021R

B1EX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						
surrogate: 1-Cntorooctaaecane	83./	70 49.1-14	0						

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Celey D. Keine



# Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

Project Name: **BIG EDDY UNIT 248H** 

Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132 Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

# Sample ID: CS 69 SURFACE (H251072-17)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	85.2 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2 9	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025 Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

# Sample ID: CS 66 SURFACE (H251072-18)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	13.2	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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# Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

# Sample ID: CS 65 SURFACE (H251072-19)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	85.7	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	10.2	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.0	% 49.1-14	8						

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# Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

Project Name: BIG EDDY UNIT 248H

Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

# Sample ID: CS 64 SURFACE (H251072-20)

RTFY 8021R

Analyte Benzene*	Result < 0.050 < 0.050	Reporting Limit 0.050	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		0.050				70 110001017	True value QC	KFD	Qualifier
	< 0.050		02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	.0.000	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	< 0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	10.9	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	77.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.1	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keine



# Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

# Sample ID: CS 63 SURFACE (H251072-21)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

# **Sample ID: CS 61 SURFACE (H251072-22)**

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	13.1	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

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Celey D. Keene



Sample Received By:

02/21/2025

Shalyn Rodriguez

# Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type: Soil Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact

Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132

# Sample ID: CS 59 SURFACE (H251072-23)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	344	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	125	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	99.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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# Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

# Sample ID: CS 60 SURFACE (H251072-24)

BTEX 8021B	mg/	kg	Analyze	d 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	1.77	88.5	2.00	9.55	
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	651	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	282	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

Project Name: BIG EDDY UNIT 248H

Project Number: 03C1558453
Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

# Sample ID: CS 55 SURFACE (H251072-25)

BTEX 8021B	mg,	/kg	Analyze	d 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	1.77	88.5	2.00	9.55	
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/25/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Celeg D. Keene



# Analytical Results For:

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

 Received:
 02/24/2025
 Sampling Date:
 02/21/2025

 Reported:
 02/27/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

# Sample ID: CS 56 SURFACE (H251072-26)

BTEX 8021B	mg	/kg	Analyze	d 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	1.77	88.5	2.00	9.55	
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/25/2025	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	12.4	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	18						

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# Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

# Sample ID: CS 57 SURFACE (H251072-27)

BTEX 8021B	mg	/kg	Analyze	ed 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	1.77	88.5	2.00	9.55	
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	02/25/2025	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	128	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	50.3	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

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# Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

02/27/2025 BIG EDDY UNIT 248H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

# Sample ID: CS 58 SURFACE (H251072-28)

BTEX 8021B	mg,	/kg	Analyze	d 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	1.77	88.5	2.00	9.55	
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/25/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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# Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

# Sample ID: CS 62 SURFACE (H251072-29)

BTEX 8021B	mg	/kg	Analyze	ed 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	1.77	88.5	2.00	9.55	
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/25/2025	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	50.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	18						

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# **Notes and Definitions**

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

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(676) 393	(5/5) 393-2325 FAX (3/3) 300 200		BILL TO	AN	ANALYSIS KEWOESI
Company Name: Ensolum, LLC	ПС	**	- 1.		
Project Manager:				5	
Address: 601 N Marienfeld Street, Suite 400	Street, Suite 400	Com	Company. A Comman.		
City: Midland	State: TX	Zip: 79701 Attn:	Colton Brown	2	
Phone #: 575-937-3906	00 7 Fax #:	Addr	C Glociso	9	
Project #: 03C155438	Project Owner:	XTO Energy	Carlsbad		
Project Name: Big Eddy Unit 248H	Jnit 248H	State	State: NM Zip: 88220		
Project Location: 32.62085,-103.83132	5,-103.83132	Pho	Phone #:		
Sampler Name: Evan Roe		Fax #:			
NOW THE DIST.		MATRIX	PRESERV		
Lab I.D. Samp	Sample I.D. Depth (feet)	S)RAB OR (C)ON CONTAINERS ROUNDWATER /ASTEWATER OIL HIL LUDGE OTHER:	CE/COOL OTHER:	TPH 8015 BTEX 8021 Chloride 4500	
TO WILL CS 8	Surface	-1 <	-	443 / / /	
2 CS &	7 Surface	0 1	V 2/1/1/25	X X X C47	
CS &	Surface	C 1	V 221/2/2	X X X X	
CS S	Surface	0 1	2/21/25	747 / / /	
CS X	Surface	0 1	V 2/1/2/2	, X	
/a CS	2 Surface	C 1 V	C211777	V V V V	
7 CS %	Surface	C 1 V	V 201120	\ \ \ \ \	
8 CS 8	3 Surface	C 1 ×	V 2/21/25	V V V V V	
9 cs s	Surface	C 1 ×	2/21/25	, <	
CS CALLER NOTE: Labelly and Damages.	Surface Surface	C 1  or any datin ariting whether beauting contrapt or text, shall be to be desirated variety whether tracks in willing and received by Care be desirated variety and received by Care	miled to the area dead within 30 o	ly the cleant for the applicable	
analyses. All claims including those for reg- service, it no event shall Caudinal be lable adiabas or successors arising but of or 1956.	agence and enjoyees of a for excitembel or consequen- and to the performance of a	10 5	A of the spins series of the	Verbal Result:   Yes   No	Add'l Phone #:
Relinquished By:	Se head	S Received BY:	my !	All Results are emailed. Please provide Email address: BBeilit@ensolum.com, TMorrissey@ensolum.com, THilla	Il Results are emailed. Please provide Email socress:  BBeilit@ensolum.com, TMorrissey@ensolum.com, <u>THillard@ensolum.com</u>
Relinquished By:		Received By:		KEMAKNO:	1
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Carrant	Sample Condition Cool Intact Cool Intact Cool No	CHECKED BY:	Sample Condition CHECKED BY: Turnaround Time: Standard Cool Intact (Initials)  Cool Intact (Initials)  Thermometer ID sata Cool Intact (Initials)	Bacteria (only) Samper Convences Cool Intact Observed Temp. *C  Yes Yes No Corrected Temp. *C

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Zip: 79701  : XTO Energy	P.O. #:  Company: XTO E  Attn: Colton Brow  Address: 3104 E  City: Carlsbad  State: NM Zip:  Phone #:  Phone #:  PRESERVI	P.O. #:  Company: XTO  Attn: Colton Bro  Address: 3104  Address: NM Zip  Phone #:  Fax #:  MATRIX   PRESERV	P.O. #:  Company: XTO E  Attn: Colton Brow  Address: 3104 E  City: Carlsbad  State: NIM Zip:  Phone #:  Phone #:  Preservi
	P.O. #: Company: XTO E Attn: Colton Brow Address: 3104 E City: Carisbad State: NM Zip: Phone #: Fax #: PRESERV.	P.O. #: Company: XTO E Attn: Colton Brow Address: 3104 E City: Carisbad State: NM Zip: Phone #: Fax #: PRESERV.	P.O. #: Company: XTO Energy, Inc Attn: Colton Brown Address: 3104 E Greene St City: Carlsbad State: NM Zip: 88220 Phone #: Fax #: Fax #: Fax #: SAMPLING

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326	26	FAX (0/0) 383-2470	ľ	١		4	1	2	1		1			ANA	S	ANALYSIS REQUEST	EST
Company Name: Ensolum, LLC	LLC					-	1		BILL 10		1	1	+			-	
Project Manager:						13	F.O. #	7									
Address: 601 N Marienfeld Street, Suite 400	Street, Su	ite 400				0	dwo	any: XT	Company: XTO Energy, Inc	inc			_			_	
City: Midland		te: TX	Zip: 79701	970	_	Þ	Attn:	Colton Brown	UMD				_				
Phone #: 575-937-3906		Fax #:				D	ddre	Address: 3104	3104 E Greene	St						_	
Project #: 03C1554384		A Sproject Owner:		OE	XTO Energy	0	City:	Carlsbad	۵				_			_	
Project Name: Big Eddy Unit 248H		-				co	tate	State: NM Z	Zip: 88220				_			_	
Project Location: 32.62085,-103.83132	85,-103.8	3132				P	Phone #:	*					_				
Sampler Name: Evan Roe	æ					77	Fax #:	ľ					_				
FOR USE CHLY			P.		MATRIX		P	PRESERV.	SAMPLING	ING						_	
Lab I.D. Samp	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMF	# CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL	SLUDGE	OTHER: ACID/BASE:	ICE / COOL- OTHER:	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500				
3/ cs 6:	W	Surface	C	-	<		+	<	2/21/25	1744	. <	. <	. <	Ť	1		
32 CS 61	~	Surface	O	-	<			<	2/21/25	557	. <	<	.<	Ť	T		
- 1	3	Surface	C	->	<		-	<	2/21/25	<b>19347</b>	1	<	<	t	T	+	
	0	Surface	_	->	<		+	<	2/21/25	1353		<	<	Ť	T	+	
1	4	Surface	a	-	<		-	<	2/21/25	386	. <	<	<	t	T	+	
CS	95	Surface	G	-	<		+	<	2/21/25	1403	<	. <	,<	t	1		
	7	Surface	O	-	<		H	<	2/21/25		K	. <	<	Ť	T	1	
CS	8	Surface	O	-	.<		+	<	2/21/25	1969	. <	. <	<	t			
39 CS 62	2	Surface	0	-	. <	1	+	. <	2/21/25	1400	<	. <	` <	T	T		
CS PLEASE NOTE: Labbly and Damager. Card analyses. All claims including those for nephip	figence and any of	Surface  chart auditale seredy for a	Constant C	Parent -	claim arising whether trained in continued in fact, duals be limited extended up that, duals be limited extended united united united incident inci	parties of parties	100	commed or hart, shadl be limited to the an elling and incashed by Caudinal setten to actions, base of use, or hass of profits inco	and the state of	paid by the cleat for the after completion of the appli by client, its subsidiaries.	7 1 1 K	*	R	ı	ı		
Relinquished By:	and to the perferma	Date: 1930		0 3	Received By:	2	0	25	2	Verbal Result. All Results are 88elil@enso	suft: ensolu	mailed.	Verbal Result:   Yes   No Add'l Phone #:  All Results are emailed. Please provide Email address:  8Belik@ensolum.com, THilla  8Belik@ensolum.com, THilla	Add' ovide Er gensolu	Add'I Phone #: de Email addres	erbal Result: □ Yes □ No   Add'l Phone #: Il Results are emailed. Please provide Email address: 89elil@ensolum.com. TMorrissey@ensolum.com, THillard@ensolum.com	insolum.com
		Date:	The same of	celv	Received By:	1	4		0	REMARKS:	Ċ						
		Time:													5		Condition .
Delivered By: (Circle One)	her	S	37.0		Sample Condition Cool Intact	Condition that	ă	CHECKED	ED BY:	Turnarour	553	15	Turnaround Time: Standard #10070-3 Rush Thermometer 10 4441	<b>6</b>		Cool Intact	Bacteria (only) paintiple connection Cool Intact Observed Temp. *C  Yes Yes No Corrected Temp. *C



March 11, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 03/10/25 12:45.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

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

Received: 03/10/2025 Sampling Date: 03/07/2025

Reported: 03/11/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 06 2.5' (H251384-01)

BTEX 8021B	mg,	/kg	Analyze	d 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	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	136	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	104	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	109	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



# Analytical Results For:

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

Received: 03/10/2025 Reported: 03/11/2025

03/11/2025 BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: FS 07 2.5' (H251384-02)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed 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	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	134	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	98.4	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	104	% 40.6-15	3						

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Celey D. Keene



# Analytical Results For:

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

Received: 03/10/2025 Sampling Date: 03/07/2025

Reported: 03/11/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: FS 16 2' (H251384-03)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	20.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	100	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105	% 40.6-15	3						

# Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



# Analytical Results For:

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

Received: 03/10/2025 Sampling Date: 03/07/2025

Reported: 03/11/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 17 2' (H251384-04)

BTEX 8021B	mg	/kg	Analyze	ed 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	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	< 0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	130	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	105	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	109	% 40.6-15	3						

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Celeg D. Keene



# Analytical Results For:

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

Received: 03/10/2025 Sampling Date: 03/07/2025

Reported: 03/11/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 18 2' (H251384-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	< 0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	135	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	107	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	110	% 40.6-15	3						

# Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



# Analytical Results For:

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

Received: 03/10/2025 Sampling Date: 03/07/2025

Reported: 03/11/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: FS 19 2' (H251384-06)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a 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	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	134	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	94.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	98.3	% 40.6-15	3						

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Celeg D. Keene



# Analytical Results For:

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

Received: 03/10/2025 Sampling Date: 03/07/2025

Reported: 03/11/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: FS 20 2' (H251384-07)

RTFY 8021R

B1EX 8021B	mg	кg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	29.2	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	102	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	107	2% 40.6-15	3						

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Celey D. Keene



# Analytical Results For:

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

Received: 03/10/2025 Sampling Date: 03/07/2025

Reported: 03/11/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: FS 21 2' (H251384-08)

RTFY 8021R

B1EX 8021B	mg	/ <b>kg</b>	Anaiyze	a 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	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	133	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	104	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	108	% 40.6-15	3						

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# Analytical Results For:

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

Received: 03/10/2025 Sampling Date: 03/07/2025

Reported: 03/11/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: FS 22 2' (H251384-09)

RTFY 8021R

B1EX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	101	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	106	% 40.6-15	3						

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03/07/2025

Soil

# Analytical Results For:

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

Received: 03/10/2025 Sampling Date:

Reported: 03/11/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: FS 23 2' (H251384-10)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	132	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	106	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	111	% 40.6-15	3						

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# Analytical Results For:

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

Received: 03/10/2025 Sampling Date: 03/07/2025

Reported: 03/11/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: FS 24 2' (H251384-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	91.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.3	% 40.6-15	3						

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03/07/2025

Soil

# Analytical Results For:

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

Received: 03/10/2025 Sampling Date:

Reported: 03/11/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: FS 25 2' (H251384-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	132	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	92.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.6	% 40.6-15	3						

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# Analytical Results For:

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

Received: 03/10/2025 Sampling Date: 03/07/2025

Reported: 03/11/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: FS 26 2' (H251384-13)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a 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	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	91.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	94.9	% 40.6-15	3						

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# Analytical Results For:

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

Received: 03/10/2025 Sampling Date: 03/07/2025

Reported: 03/11/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: FS 27 2' (H251384-14)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	87.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.6	% 40.6-15	3						

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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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Ensolum, LLC		BILL TO		ANAI VOIC DECLIFOR
Project Manager: Tracy Hillard		P.O. #:		DESCRIPTION OF THE PROPERTY OF
Address: 3122 National Parks Hwy	wy	Company: XTO Energy	Inc	
city: Carlsbad	State:NM Zip: 88220	Attn: Colton Brown		
Phone #: 575-937-3906	Fax#:	Address: 3104 E. Green St.	1 St.	
Project #: 03C1558453 & 03C1558587	587 Project Owner: XTO	city: Carlsbad	1	
Project Name: Big Eddy Unit 248 H	& 249H	State: NM Zip: 88220		
Project Location: 32.62085,-103.83132	3132			
ampler Name: Jesse Dorman		THORE #:		
Sampler Name: sesse Domien		Fax #:		
SON THE CHE OWEN	MATRIX	PRESERV. SAMPLING	ā	
Lab I.D. Sample I.D.	WATER		RIDE	
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04 45 20		11	50	
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EASE NOTE: Labbly and Damages. Cardina's listely and dis- alyses. All claims instacting those for negligence and any other o non. In no event shall Cardinal by listin for incidental or consequence.	The extraors remarkly for any stem aroung whether based in continuous bot, cause whittoners which had deemed washed unless and in writing and mode stematic distribution around the better in commands in writing and mode	of or loct, shall be involved to the amount just by the ord received by Combrest within; NO days after conspiler	Short for the approaches	
elinquished By:	Date: 10-25 Received By:	Verb	Verbal Result: □Yes □No	Add'l Phone #:
elinguished By:	HOMM Str 2 bur	Make BB	BBeilingensolum.com TMorrisse	ease provide Email address: Thillard@ensolum.com Thorrissey@ensolum.com kthomason@ensolum.com
•	necessed by:	REM	REMARKS: Cost Contact 1140201001	
	Time:	Inck	dent ID: NAPP2418043567, nAP	Incident ID: NAPP2418043567, nAPP2432147637, NAPP2432531235, NAPP2502042071
ampler - UPS - Bus - Other: C	Sample Condition	CHECKED BY: TI	Turnaround Time: Standard	Bacteria (only) Sample Condition Cool Intact Observed Temo *C
	No.	Commo	JANE SAME	Yes Yes

Sampler - UPS -

Bus - Other:

FORM (00) R 3 2 10/03/21

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

10-3/10/25

Observed Temp. "C

0

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Relinquished By: Relinquished By Delivered By: (Circle One) PLEASE NOTE: Links and Sampler Name: Jesse Dorman Project Location: 32.62085,-103.83132 Project Name: Phone #: Project Manager: Tracy Hillard Address: 3122 National Parks Hwy Company Name: Lab I.D 3 575-937-3906 03C1558453 & 03C1558587 Sample I.D. Big Eddy Unit 248 H & 249H Ensolum, LLC 526 205 165 1 3 --- C S2-0-28 Sample Depth Fax # State: NM Project Owner: (1eet) Received 6 C(G)RAB OR (C)OMP # CONTAINERS XTO GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER Fax #: Phone #: State: NM Zip: 88220 city: Carlsbad P.O. #: Attn: Colton Brown Address: 3104 E. Green St Company: XTO Energy Inc. ACID/BASE CHECKED BY: OTHER BILL TO 3/7/25 DATE ad by client, its subsidiaries SAMPLING Turnaround Time: All Results are emailed. by the class REMARKS: BBesingensolum.com Incident ID: NAPP2418043567, nAPP2432147637, NAPP2432531235, NAPP2502042071 350 edon of the ap BTEX Cost Center: 1140201001 L TPH Standard Please provide Email address: TMorrissey@ensolum.com, CHLORIDE DNo Add'l Phone #: ANALYSIS REQUEST Bacteria (only) Sample Condition kthomason@ensolum.com Thilland@ensolum.com



March 12, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 03/11/25 15:15.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

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

Received: 03/11/2025 Sampling Date: 03/10/2025 Reported: 03/12/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

## Sample ID: SW 01 0-2' (H251425-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01	
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/12/2025	ND	464	116	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					
Surrogate: 1-Chlorooctane	89.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	85.4	% 40.6-15	3						

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## Analytical Results For:

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

Received: 03/11/2025 Sampling Date: 03/10/2025

Reported: 03/12/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

## Sample ID: SW 02 0-2' (H251425-02)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01	
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/12/2025	ND	464	116	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					
Surrogate: 1-Chlorooctane	93.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.0	% 40.6-15	3						

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Tamara Oldaker

## Analytical Results For:

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

Received: 03/11/2025 Reported: 03/12/2025

 03/11/2025
 Sampling Date:
 03/10/2025

 03/12/2025
 Sampling Type:
 Soil

 BIG EDDY UNIT 248H & 249H
 Sampling Condition:
 Cool & Intact

Sample Received By:

 Project Name:
 BIG EDDY UNIT 248H & 249H

 Project Number:
 03C1558453 & 03C1558587

 Project Location:
 XTO 32.62085-103.83132

## Sample ID: SW 03 0-2.5' (H251425-03)

RTFY 8021R

B1EX 8021B	mg/	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01	
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/12/2025	ND	464	116	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	23.8	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					
Surrogate: 1-Chlorooctane	81.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	76.6	% 40.6-15	3						

Applyzod By: 14

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## Analytical Results For:

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

Received: 03/11/2025 Reported:

03/12/2025 BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453 & 03C1558587 Project Location: XTO 32.62085-103.83132

Sampling Date: 03/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

## Sample ID: FS 31 3' (H251425-04)

Project Name:

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01	
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/12/2025	ND	464	116	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	83.4	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	19.1	10.0	03/11/2025	ND					
Surrogate: 1-Chlorooctane	87.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.5	% 40.6-15	3						

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## Analytical Results For:

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

Received: 03/11/2025 Reported: 03/12/2025

03/12/2025 Sampling Type: BIG EDDY UNIT 248H & 249H Sampling Condition:

 Project Number:
 03C1558453 & 03C1558587

 Project Location:
 XTO 32.62085-103.83132

ma/ka

Sampling Date: 03/10/2025

Sample Received By:

Soil Cool & Intact

Tamara Oldaker

## Sample ID: FS 40 4' (H251425-05)

Project Name:

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01	
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/12/2025	ND	464	116	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					
Surrogate: 1-Chlorooctane	91.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	85.2	% 40.6-15	3						

Applyzod By: 14

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## Analytical Results For:

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

Received: 03/11/2025 Reported: 03/12/2025

 03/11/2025
 Sampling Date:
 03/10/2025

 03/12/2025
 Sampling Type:
 Soil

 BIG EDDY UNIT 248H & 249H
 Sampling Condition:
 Cool & Intact

Applyzod By: 14

 Project Name:
 BIG EDDY UNIT 248H & 249H

 Project Number:
 03C1558453 & 03C1558587

 Project Location:
 XTO 32.62085-103.83132

ma/ka

H & 249H Sampling Condition: Cool & Intact
558587 Sample Received By: Tamara Oldaker

## Sample ID: FS 41 4' (H251425-06)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01	
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/12/2025	ND	464	116	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					
Surrogate: 1-Chlorooctane	84.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.0	% 40.6-15	3						

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## Analytical Results For:

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

Received: 03/11/2025 Reported:

Sampling Date: 03/10/2025 03/12/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Project Number: 03C1558453 & 03C1558587 Project Location: XTO 32.62085-103.83132

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

## Sample ID: FS 42 4' (H251425-07)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01	
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/12/2025	ND	464	116	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					
Surrogate: 1-Chlorooctane	88.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.6	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## **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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FORM-006 R 3 2 10/03/21

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

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

	(575) 393-2326	FAX (575) 393-2476	476				
Company Name:	Ensolum, LLC			BILL TO		ANALYSIS REQUEST	FOUEST
Project Manager: Tracy Hillard	:Tracy Hillard			P.O. #:			
Address: 3122 N	Address: 3122 National Parks Hwy	wy		Company: XTO Energy Inc.	v Inc.		
city: Carlsbad	4	State:NM	Zip: 88220	Attn: Colton Brown			
Phone #: 575-9	575-937-3906	Fax#:		Address: 3104 E. Gre	Green St.		
Project #: 03C	03C1558453 & 03C1558577	577 Project Owner:	wner: XTO				
Project Name:	Big Eddy Unit 248 H	248 H & 249H		State: NM Zip: 88220	0		
Project Location:	32.62085,-103.83132	3132		- 1			
Sampler Name: Jesse Dorman	esse Dorman			Flav III			
A TWO SSIT BYT BOA			- Company				
Lab I.D.	Sample I.D.	Sample Depth (feet)	RAB OR (C)OMP. CONTAINERS COUNDWATER USTEWATER	D/BASE BERLING	TEX PH HLORIDE		
misterial	1 ams	0.4	GI W SC OI	AC AC	T	-	
2	5000	4			1143		
40	20mg	0-2,5'			1150		
101	24.5	1			827		
16	1651	_			11811		1
1	\$5.10	ć	4	4	227 4 4 9	1	
	30						
PLEASE NOTE: Liestly and Damages analyses. All claims including those for service. In no event shall Cardinal by its affiliation or supplements analog out of or Delinion or supplements analog out of or	CASE NOTE: Landing and Damages. Canding's lasting and dis- lipmen. All claims including Bloom for mappings and any other or local in no seem that Candinal be liable for including a comment with the comment and candinal be liable for included and any lasting or suppression seeking out of or instead to the performance.	ent's exclusive servedy for cause whatsoever shall be caused damages, include of services hereunder by	uits artistig who ned walend unio out limitation, b rd, regardiess	their based in contract in the, shall be limited to the amount-paid by see made in writing and respond by Cardinal within 30 days after on unlesses interruptions, loss of use, or loss of purities incomed by chim of absolute such claim is believed upon any of the above string frame.	regard by the claim for the re after completion of the applicable of by claim; to autoclaims.		
Religions bad Bu	1	21/5/2 21/-25	Launaka	alle Ly	Verbal Result: OYes OHABROSUlts are emailed. Pleas BBellingensolum.com TM/	☐No Add'I Phone it: Please provide Email address: TMorrissey@ensolum.com,	Thillard@ensolum.com kthorrason@ensolum.com
y designation of		Time:	Received By:	- 20	REMARKS: Cost Center: 1140201001 Incident ID: NAPP2418043567, nAPP241	40201001 , nAPP2432147637, NAPP	XEMARKS: Cost Center: 1140201001 Incident ID: NAPP2418043567, nAPP2432147637, NAPP2432531235, NAPP2502042071
Sampler - UPS - Bus - Other		Carrantes Tamp. 'C	Sample Condition Cool Intact Yes Yes	CHECKED BY:	Turnaround Time: Standard Rush Thermometer D 1113#14 211 1		S.
					DAC TOL		Corrected Terms *C



March 17, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

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

Received: 03/14/2025 Sampling Date: 03/13/2025 Reported: 03/17/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 34 2' (H251525-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
Ethylbenzene*	< 0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
Total BTEX	<0.300	0.300	03/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	252	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	45.8	10.0	03/14/2025	ND					
Surrogate: 1-Chlorooctane	82.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.8	% 40.6-15	3						

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Celey D. Keene



## Analytical Results For:

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

Received: 03/14/2025 Sampling Date: 03/13/2025

Reported: 03/17/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

## Sample ID: FS 35 2' (H251525-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
Total BTEX	<0.300	0.300	03/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/17/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					
Surrogate: 1-Chlorooctane	86.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.1	% 40.6-15	3						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



03/13/2025

Soil

## Analytical Results For:

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

Received: 03/14/2025 Sampling Date: Reported: 03/17/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C1558453 & 03C1558587 Alyssa Parras

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 36 2' (H251525-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
Total BTEX	<0.300	0.300	03/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
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	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	59.7	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					
Surrogate: 1-Chlorooctane	89.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.3	% 40.6-15	3						

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## Analytical Results For:

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

Received: 03/14/2025 Sampling Date: 03/13/2025

Reported: 03/17/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

## Sample ID: FS 37 2' (H251525-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
Total BTEX	<0.300	0.300	03/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
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	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					
Surrogate: 1-Chlorooctane	76.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.7	% 40.6-15	3						

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Celey D. Keene



## Analytical Results For:

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

Received: 03/14/2025 Sampling Date: 03/13/2025

Reported: 03/17/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C1558453 & 03C1558587 Alyssa Parras

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 38 2' (H251525-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
Total BTEX	<0.300	0.300	03/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					
Surrogate: 1-Chlorooctane	81.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	76.6	% 40.6-15	3						

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Celey D. Keene



## Analytical Results For:

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

Received: 03/14/2025 Sampling Date: 03/13/2025

Reported: 03/17/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 & 03C1558587 Alyssa Parras

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 39 2' (H251525-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
Ethylbenzene*	< 0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
Total BTEX	<0.300	0.300	03/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
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	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					
Surrogate: 1-Chlorooctane	79.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	78.1	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## Analytical Results For:

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

Received: 03/14/2025 Sampling Date: 03/13/2025

Reported: 03/17/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

## Sample ID: FS 53 2' (H251525-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
Total BTEX	<0.300	0.300	03/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/17/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					
Surrogate: 1-Chlorooctane	83.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	79.7	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



## Analytical Results For:

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

Received: 03/14/2025 Sampling Date: 03/13/2025

Reported: 03/17/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 56 6' (H251525-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
Total BTEX	<0.300	0.300	03/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/17/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					
Surrogate: 1-Chlorooctane	73.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.4	% 40.6-15	3						

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## Analytical Results For:

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

Received: 03/14/2025 Reported: 03/17/2025

 03/14/2025
 Sampling Date:

 03/17/2025
 Sampling Type:

Applyzod By: 14

 Project Name:
 BIG EDDY UNIT 248H & 249H

 Project Number:
 03C1558453 & 03C1558587

 Project Location:
 XTO 32.62085-103.83132

ma/ka

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

03/13/2025

Soil

## Sample ID: FS 57 6' (H251525-09)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
Total BTEX	<0.300	0.300	03/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/17/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					
Surrogate: 1-Chlorooctane	78.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	74.9	% 40.6-15	3						

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Celey D. Keine



## Analytical Results For:

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

Received: 03/14/2025 Sampling Date: 03/13/2025

Reported: 03/17/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 58 6' (H251525-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
Total BTEX	<0.300	0.300	03/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					
Surrogate: 1-Chlorooctane	85.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.9	% 40.6-15	3						

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## **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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101 East Marland, Hobbs, NM 88240

(575) 393-2326	(575) 393-2326 FAX (575) 393-2476		Tealing along the	
Company Name: Ensolum LLC		BILL TO	ANALISIS REGOTO:	
Project Manager: Tracy Hillard		P.O.#:		
Address: 3122 National Parks Hwy	twy	company: XTO Energy Inc.	0	
city: Carlsbad	State: NM Zip: 88220	Attn: Colton Brown		
ŏ	Fax#:	Address: 3104 E. Green St.		
Project #: 03C1558453 & 03C1558577	8577 Project Owner: XTO	city: Carlsbad		
ame:	Big Eddy Unit 248 H & 249H	State: NM Zip: 88220		
Ä	83132	Phone #:		
Sampler Name: Jesse Dorman		Fax #:		
A TWO 350 DVT NO.		PRESERV		
Lab I.D. Sample I.D.	(G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACIO/BASE: ICE / COOL OTHER:	BTEX TPH CHLORIDE	
1254 1254 1254 1255 1255 1255 1255 1255				
5553 5553 5553	6,4	2000		
PLEASE NOTE: Liable and Damages. Cardinal's labelly.	S ability and client's exclusion immedy for any claim instituty absolute transe in core in and any other causes whatsoever shall be deserved watered unless in and in and	A whether transf in contract or tark shall be limited in the emotion part by the other or unique made in writing and incurrent by Carifoldi writin 30 flags with complete or or other and other actions.	it paid by the chief for the applicables	
sealor. In ro earst shall Cardinal for liable for records or attention or automation sensing road of or resisted to the performance of the control of the c	Posts: A 7, N-25 Received By:	claim is based upon any of the above stated reasons. Vio	con a cheminal control of the Contro	solum.com ensolum.com
Relinquished By:	Date: Received By:		enter: 1140201001 8043567, nAPP24321	NAPP2502042071
Delivered By: (Circle One)	Sample Caol	CHECKED BY: To (Initials)	Turnaround Time: Standard Bacteria (only) Sample Condition  AP 3-14-35 Rush Cool Intact Observed Temp.  Thermometer D #4194-1/13 74/h   Yes Yes   Corrected Temp.	Sample Condition Observed Temp. *C Corrected Temp. *C

FCRM-006 R 3.2 10/07/21



March 19, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 44 6 (H251580-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.94	97.0	2.00	1.08	
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	85.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/19/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	88.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.0	% 40.6-15	3						

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Celey D. Keene



## Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 59 4-7' (H251580-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.94	97.0	2.00	1.08	
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	03/19/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	36.2	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	83.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	78.3	% 40.6-15	3						

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03/17/2025

## Analytical Results For:

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

Received: 03/18/2025 Sampling Date:

Reported: 03/19/2025 Sampling Type:

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact

Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 60 4-7' (H251580-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.94	97.0	2.00	1.08	
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	03/19/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	87.9	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	25.6	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	88.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.0	% 40.6-15	3						

## Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



## Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 61 4-7' (H251580-04)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.94	97.0	2.00	1.08	
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	03/19/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	499	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	98.3	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	90.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.3	% 40.6-15	3						

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Celey D. Keine



## Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 47 8 (H251580-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.94	97.0	2.00	1.08	
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/19/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	13.9	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	71.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	64.1	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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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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Celey D. Keine

Date: Time:

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

Ohnersee Tamp

CHECKED BY

Incident ID: NAPP2418043567, nAPP2452147637, NAPP2432531235, NAPP2502042071

Bacteria (only) Sample Condition cool Intact Observed Temp. "C

FORM 006 R 3 2 10/03/21

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



## 101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2476	X (575) 393-24/6					-	TOUEST
Company Name:	Ensolum, LLC			BILL TO			ANALISIS N	7000
Project Manager: Tracy Hillard	racy Hillard			P.O. #:				
Address: 3122 Na	Address: 3122 National Parks Hwy			company: XTO Energy Inc.	gy Inc.			
city: Carlsbad		State:NM	Zip: 88220	Attn: Colton Brown			_	
D	37-3906			Address: 3104 E. Green St.	een St.		_	
Daniert # 03C1	03C1558453 & 03C1558577	7 Project Owner: XTO	T XTO	city: Carlsbad				
1	Big Eddy Unit 248 H & 249H	I		State: NM Zip: 88220	20	_		
Project I acation:	32 62085103.83132	132		Phone #:			_	
Project Focusion	The Part of the Pa							
Sampler Name: Jesse Dorman	sse Dorman			1	DING			
NOW THE BUTTON		MP.		PRESERV	OART CITY			
Lab I.D.	Sample I.D.	Sample Depth (feet)	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX	CHLORIDE		
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دو ،	£883	4-7'			2012			1
E U	1360	+			1815			\ 
ν,-	F547	8	4	+	10/0	7	1	
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PLEASE NOTE: Liability and Six analysis. All claims including the	Stronges Candral's liability and cherify each those for regigence and any other cause w	cause whatsoever shall be dee	tain arang whether hased it continued watered under made in entiring made in entiring the state of the state	**************************************	aid by the client for the flar completion of the applicable y client, the subsidiaries.			
affiliates or successors artificate  Dellinguished By	thises or successors where put of or related to the performant bull or successors where put of or related to the performant to the performant of the perfo	Conditional formation by Card	Received By:	such claim is based upon any of the above stood	ult:		Add'l Phone #:	s: Thillard@ensolum.com
Kelinquisned by	)	V	Sadvione	and I	All Results are emailed BBellil@ensolum.com		TMorrissey@ensolum.com,	×
Relinguished By:		Date:	Received By:	0	REMARKS: Cost	Cost Center: 1140201001	1001	
Relinquished by		_		200	Cost	Center, 114020	1001	



March 19, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025 Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 64 3' (H251581-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.94	97.0	2.00	1.08	
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	85.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	69.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	64.7	% 40.6-15	3						

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Celeg D. Keene



### Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

### Sample ID: FS 65 3' (H251581-02)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.94	97.0	2.00	1.08	
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	85.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	88.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.1	% 40.6-15	3						

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Celey D. Keine



### Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

### Sample ID: FS 66 3' (H251581-03)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.94	97.0	2.00	1.08	
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/19/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	88.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.1	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

### Sample ID: FS 67 3' (H251581-04)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.94	97.0	2.00	1.08	
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	85.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	88.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.7	% 40.6-15	3						

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Celey D. Keene



### **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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Celey D. Keine

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

Onserved Temp. 'C

5

FORM 006 R 3 2 10/07/21

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



(575) 393-2326	FAX (313) 333-2414	BILL TO	ANALYSIS RE	REQUEST
Company Name: Ensolum, LLC		P.O. #		
Project Manager: Tracy Hillard		XTO Energy Inc.		
Address: 3122 National Fairs riwy		Colton Brown		
city: Carlsbad	State:NM Zip: 88220	Attn: Conon Crown	7	
e#: 575-937-3906	Fax #	Address: 3104 E. Green St.	000	
Project #: 03C1558453 & 03C1558577	Project Owner: XTO	city: Carlsbad		
1	8 H & 249H	State: NM Zip: 88220		
ž	32	Phone #:		
Jesse Dorman		Fax #:		
Sampler Name: 20000 Commen	MATRIX	PRESERV SAMPLING		
Lab I.D. Sample I.D.		SLUDGE OTHER: ACID/BASE: CE / COOL OTHER:	BTEX TPH CHLORIDE	
1977	2 "	_	100	
2 4565			777 %	1
5 \$566	4	4 4 3	1 / 1 / 55	
1 1/2 1				
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\	existing extracted attended by any claim analog whether based in control of byt, shall be lenked in the ani	dract or tors, shall be letitled to the emount paid by t	ount past by the client for the	
FLEASE NOTE: Labelly part Chrisque. Cardinal's labelly and clients exhables remoth for any care arrangement of the control of the applicable property. All claims endocing these for registros and any other consolered who deemed without made in every and incident by Cardinal within 30 days after completion of the applicable property. All claims endocing these for registros and any other consolered abusiness shall be deemed without installed, sources stronggloves, loss of use, or loss of public sources of youths sourced by Claims, its solutions on the control of the contro	orth addisse renety for any dest is may extrem execut no conservative destination of the completion of the conservative state to destinate execut the destination of the conservative state of the destination of the de	g and received by Cardinal within 30 days after com sons, least of use, or least of profile incurred by Glent,	esion of the applicable subsidiares.	
benice. In no every state Landras on money to accommon among out of or related to the performance	Date: O Received By:	tain is based upon any of the above stand mesons.	verbal Result:   Yes   No   Add   Phone #:	Thillard@ensolum.com
Kennquisiwa ay.	_	gee	BBeiliggensolum.com TMomssey@ensolum.com,	×
Relinouished By:	Date: Received By:		REMARKS: Cost Center: 1140201001	

Incident ID: NAPP2418043567, nAPP2432147637, NAPP2432531235, NAPP2502042071

Bacteria (only) Sample Condition Cool Intact Observed Temp. \*C



March 28, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

 Received:
 03/24/2025
 Sampling Date:
 03/20/2025

 Reported:
 03/28/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 68 3' (H251704-01)

DTEV 0021D

BTEX 8021B	mg/	kg	Analyze	d 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	1.92	95.9	2.00	4.60	
Toluene*	<0.050	0.050	03/25/2025	ND	2.00	100	2.00	0.738	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.98	99.0	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	1.89	
Total BTEX	<0.300	0.300	03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/25/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					
Surrogate: 1-Chlorooctane	75.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	66.3	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 03/24/2025 Sampling Date: 03/20/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 74 3' (H251704-02)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a 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	1.92	95.9	2.00	4.60	
Toluene*	<0.050	0.050	03/25/2025	ND	2.00	100	2.00	0.738	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.98	99.0	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	1.89	
Total BTEX	<0.300	0.300	03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/25/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d 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	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					
Surrogate: 1-Chlorooctane	83.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	72.5	% 40.6-15	3						

# Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **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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Celey D. Keine

FDRM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey keen be cardinallabsnm.com

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

8	FAX (5/5) 393-24/6	476							
Company Name: Ensolum, LLC			BILL TO	0			ANA	ANALYSIS REQUEST	
Project Manager: Tracy Hillard			P.O. #:		$\dashv$	$\dashv$			
Address: 3122 National Parks Hwy			Company: XTO Energy Inc	rgy inc		_	_		_
City: Carlsbad	State: NM	Zip: 88220	Attn: Colton Brown			_			
Phone #: 575-937-3906	Fax#:		Address: 3104 E Green St	en St	_	_			
Project #: 03C1558453 / 03C1558577	7 Project Owner: XTO	ar: XTO	City: Carlsbad		_	_			_
Project Name: Big Eddy Unit 248H / 249H	/ 249H		State: NM Zip: 88220	220	_	_			
Project Location: 32.62085, -103.83132	132		Phone #:		_	_			
Sampler Name: Alex Ferrell			Fax #:		_	_			
A THO SISO BIT I BOX		MATRIX	PRESERV. SA	SAMPLING		_			
Lab I.D. Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP  # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / GOOL OTHER:	ЭМІТ	Chlorides	TPH BTEX	BIEX		
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PLES 7	ω	- <	3/24/2	1507	,	(			
			AF	1	-	-			
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VLEASE NOTE: Lastiny and Dannages. Cardinal's leastiny and malpress. All claims: including house for negligarous and any of service. In na reent shall Cardinal be liable for incidental or our	permi predesso sotton servici se sotton estrator	emerly for any others writing whether the last is constant or tort, should be finished to the amount paid by the should be the services paid by the should be the should be described values should be described values of the supplication of the applicable on should not described by captures of the supplicable on the should be defined be interested by detect, the subsolutions, the soft was not been of purity incurred by detect, the subsolutions.	meet or tel, shad be broked to the amount speed by the about for the speed excellent by Cardinal within 30 days after competions of the res, loss of use, or loss of puttle incurred by client, its substitutions	said by the sheet for the author completion of the author by stient, its subsidiaries.	operate.	1	-		Æ
Relinquished By:	Date: 34.2	Received By:		Verbal Result: ☐ Yes All Results are emailed. P THillard@ensolum.com,	it: O	Yes ailed. Pl am.com,	Verbal Result:   Yes   No AddTPhone #:  All Results are emailed. Please provide Email address:  THillard@ensolum.com, TMorrissey@ensolum.com, I	☐ No AddTPhone #: lease provide Email address: TMorrissey@ensolum.com, KThomason@ensolum.com	9
Relinquished By:	S/Regul	Received By:	follows or	REMARKS: Incident: NAPP241804351	PP2418	01001	, NAPP24321478	REMARKS: Incident: NAPP2418043567, NAPP2432147637, NAPP2432531235, NAPP2502042071	12071
Sampler - UPS - Bus - Other:	Carrent Tana "C	C 3.8 Sample Condition	RES (Initials)	Turnaround Time: Standard	Time:	Stance, Stance	_00	Bacteria (only) Sample Condition Cool Intact Observed Temp. *C    Yet   Yes   Corrected Temp. *C	5 0



March 28, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 03/24/2025 Sampling Date: 03/21/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 86 3 (H251705-01)

BTEX 8021B	mg/	'kg	Analyze	d 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	1.92	95.9	2.00	4.60	
Toluene*	<0.050	0.050	03/25/2025	ND	2.00	100	2.00	0.738	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.98	99.0	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	1.89	
Total BTEX	<0.300	0.300	03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/25/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d 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	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					
Surrogate: 1-Chlorooctane	84.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	73.8	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 03/24/2025 Sampling Date: 03/21/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03C1558453 & 03C1558577 Sample Received By:

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 105 4 (H251705-02)

BTEX 8021B	mg/	/kg	Analyze	d 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	95.8	2.00	3.41	
Toluene*	<0.050	0.050	03/26/2025	ND	2.07	103	2.00	6.15	
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.36	118	2.00	7.49	
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.07	118	6.00	7.13	
Total BTEX	<0.300	0.300	03/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/25/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d 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	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					
Surrogate: 1-Chlorooctane	74.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	64.6	% 40.6-15	3						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 03/24/2025 Sampling Date: 03/21/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 106 4 (H251705-03)

BTEX 8021B	mg/	kg	Analyze	d 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	95.8	2.00	3.41	
Toluene*	<0.050	0.050	03/26/2025	ND	2.07	103	2.00	6.15	
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.36	118	2.00	7.49	
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.07	118	6.00	7.13	
Total BTEX	<0.300	0.300	03/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/25/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					
Surrogate: 1-Chlorooctane	79.2 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	68.4	40.6-15	3						

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Celey D. Keene



### Analytical Results For:

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

Received: 03/24/2025 Sampling Date: 03/21/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 03C1558453 & 03C1558577 Sample Received By:

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 107 4 (H251705-04)

BTEX 8021B	mg/	'kg	Analyze	d 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	95.8	2.00	3.41	
Toluene*	<0.050	0.050	03/26/2025	ND	2.07	103	2.00	6.15	
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.36	118	2.00	7.49	
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.07	118	6.00	7.13	
Total BTEX	<0.300	0.300	03/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	03/25/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d 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	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					
Surrogate: 1-Chlorooctane	77.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	66.9	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

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

Received: 03/24/2025 Sampling Date: 03/21/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03C1558453 & 03C1558577 Sample Received By:

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 108 4 (H251705-05)

BTEX 8021B	mg/	'kg	Analyze	d 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	95.8	2.00	3.41	
Toluene*	<0.050	0.050	03/26/2025	ND	2.07	103	2.00	6.15	
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.36	118	2.00	7.49	
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.07	118	6.00	7.13	
Total BTEX	<0.300	0.300	03/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/25/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d 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	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					
Surrogate: 1-Chlorooctane	80.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	69.6	% 40.6-15	3						

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Celey D. Keene



### **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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Celeg D. Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326	FAX (575) 393-2476	476			ANALYSIS REQUEST
			BILL TO		
roject Manager: Tracy Hillard			P.O. #:	_	
ddress: 3122 National Parks Hwy			Company: XTO Energy Inc	inc	
ity: Carlsbad	State: NM	Zip: 88220	Attn: Colton brown		
Phone #: 575-937-3906	Fax#:		Addieso. Sier Commis		
roject #: 03C1558453 / 03C1558577	7 Project Owner: XTO	er: XTO	ba		
roject Name: Big Eddy Unit 248H / 249H	249H		State: NM Zip: 88220	0	
roject Location: 32.62085, -103.83132	132		Phone #:		
Alex Female			Fax #:		
Sampler Name: Alex Ferrell		MATRIX	ESERV.	SAMPLING	
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	Chlorides	
9857 1001100	3	-	5x/1c/k /1	0 0 0 0 0 0 0	
П	2	-			
23	7	C - V	<	+	
4 65 107	2	C 1 V	<	1531	
53	2.	0 - 0	<	103/ / / /	
				AF	
			Control of the second of the s	ged by the client for the	
py_EAGE_NOTE: Leseny and comments————————————————————————————————————	utstever turnapen zes herey	whall be deemed waised unless made to widing and receives or various including without limitation, business interruptions, loss of ups, or loss of profits note by Carofinal, regardless of whether such claim is based upon my of the abo	plicy, and received by harmonia.  plicy, toward upon or bean of profile incurred to claim is beened upon emy of the above stated.	New states the catestate Result: Yes No	No Add'l Phone #:
Relinquished By:	Date:	Received By:		All Results are emailed. Please THillard@ensolum.com, TMor	8 8
Relinquished By:	CONTRACTOR OF THE PARTY OF THE	Received By:	Mall I	REMARKS: Incident: NAPP2418043567, NA Cost Center: 1140201001	REMARKS: Incident: NAPP2418843567, NAPP2432147637, NAPP2432531235, NAPP2502842871 Cost Center: 1140201001
Defivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp	Sample Condition  Cond	Condition CHECKED BY Intact (Initials)	Turnaround Time: Standard Thermometer ID: # 45 - 0.57	dard Bacteria (only) Sample Condition Cool Intact Observed Temp. "C Wet Yes No Corrected Temp. "C
FORM-006 R 3.2 10/07/21	† Cardin	al cannot accept verba	Cardinal cannot accept verbal changes. Please email changes to celey.keene@	hanges to celey.keene@cardin	caydinal labsnm.com

Page 8 of 8



April 07, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/01/25 13:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

 Received:
 04/01/2025
 Sampling Date:
 03/31/2025

 Reported:
 04/07/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 109 5' (H251919-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.97	98.4	2.00	4.78	
Toluene*	<0.050	0.050	04/02/2025	ND	2.03	102	2.00	3.34	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.60	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.04	117	6.00	2.48	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	93.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.1	% 40.6-15	3						

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Celeg D. Keene



# Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 110 5' (H251919-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.97	98.4	2.00	4.78	
Toluene*	<0.050	0.050	04/02/2025	ND	2.03	102	2.00	3.34	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.60	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.04	117	6.00	2.48	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	88.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.5	% 40.6-15	3						

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Celey D. Keene



03/31/2025

Soil

### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: Reported: 04/07/2025 Sampling Type:

mg/kg

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 111 5' (H251919-03)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	100	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.3	% 40.6-15	3						

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Celeg D. Keene



### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 114 5' (H251919-04)

RTFY 8021R

B1EX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	90.2	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	83.1	% 40.6-15	3						

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Celeg D. Keene



### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 115 5' (H251919-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	97.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.1	% 40.6-15	3						

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Celey D. Keine



### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025 Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 116 5' (H251919-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	79.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	75.0	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 117 5' (H251919-07)

RTFY 8021R

Result								
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
<0.300	0.300	04/02/2025	ND					
119	% 71.5-13	4						
mg,	/kg	Analyze	d By: KV					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	04/02/2025	ND	416	104	400	3.77	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
<10.0	10.0	04/02/2025	ND					
86.9	% 44.4-14	5						
79.8	% 40.6-15	3						
	<0.050 <0.050 <0.050 <0.150 <0.300  119 mg, Result 32.0 mg,  Result <10.0 <10.0 <86.9	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 119 % 71.5-13 mg/kg Result Reporting Limit 32.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 44.4-14	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Celey D. Keene



### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 118 5' (H251919-08)

RTFY 8021R

llue QC RPD Qualifier 00 17.5 00 12.1 00 8.74 00 7.85
00 12.1 00 8.74
00 8.74
7.85
llue QC RPD Qualifier
00 3.77
llue QC RPD Qualifier
00 2.57
0.742

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### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 119 5' (H251919-09)

RTFY 8021R

Result	Reporting Limit							
		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
<0.300	0.300	04/02/2025	ND					
119 9	% 71.5-13	4						
mg/	'kg	Analyze	d By: KV					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	04/02/2025	ND	416	104	400	3.77	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
<10.0	10.0	04/02/2025	ND					
90.1	% 44.4-14	5						
83.7	% 40.6-15	3						
	<0.050 <0.050 <0.050 <0.150 <0.300  119 9  mg/  Result 32.0  mg/  Color = 10.0 <10.0 <90.1	<0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300  119 % 71.5-13  mg/kg  Result Reporting Limit 32.0 16.0  mg/kg  Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0	<0.050   0.050   04/02/2025     <0.050   0.050   04/02/2025     <0.150   0.150   04/02/2025     <0.300   0.300   04/02/2025	<0.050	<0.050	<0.050	<0.050	<0.050

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Celeg D. Keene



# Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 120 5' (H251919-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	96.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.8	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

### Sample ID: FS 121 5' (H251919-11)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	91.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.1	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 122 5' (H251919-12)

RTFY 8021R

BIEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/02/2025	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	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	79.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	74.4	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 124 5' (H251919-13)

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	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	6 71.5-13	4						
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	04/02/2025	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	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	88.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.7	% 40.6-15	3						

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Celey D. Keene



### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03C1558453 & 03C1558587 Sample Received By:

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 125 5' (H251919-14)

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	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
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	04/02/2025	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	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	94.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.0	% 40.6-15	3						

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Celey D. Keine



### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 126 5' (H251919-15)

RTFY 8021R

B1EX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/02/2025	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	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	107	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	101	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 127 5' (H251919-16)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
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	04/02/2025	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	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	77.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	73.2	% 40.6-15	3						

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Celeg D. Keene



### Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 128 5' (H251919-17)

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	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
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	04/02/2025	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	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	77.9	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	72.8	% 40.6-15	3						

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# Analytical Results For:

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

 Received:
 04/01/2025
 Sampling Date:
 03/31/2025

 Reported:
 04/07/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 129 5' (H251919-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	89.1	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	82.8	% 40.6-15	3						

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# Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 130 5' (H251919-19)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	83.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.8	% 40.6-15	3						

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# Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 131 5' (H251919-20)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	94.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	87.3	% 40.6-15	3						

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# Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact

Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker Project Location: XTO 32.62085-103.83132

Applyzod By: 14

# Sample ID: FS 132 5' (H251919-21)

ma/ka

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	95.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.0	% 40.6-15	3						

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# Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact

Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: FS 133 5' (H251919-22)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5	
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	97.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.6	% 40.6-15	3						

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# Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 138 5' (H251919-23)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.85	92.3	2.00	0.373	
Toluene*	<0.050	0.050	04/02/2025	ND	1.96	97.8	2.00	0.0378	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.00	99.9	2.00	0.591	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.21	103	6.00	0.831	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	96.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.9	% 40.6-15	3						

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# Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 03C1558453 & 03C1558587 Sample Received By:

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 139 5' (H251919-24)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.85	92.3	2.00	0.373	
Toluene*	<0.050	0.050	04/02/2025	ND	1.96	97.8	2.00	0.0378	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.00	99.9	2.00	0.591	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.21	103	6.00	0.831	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	99.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.8	% 40.6-15	3						

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Celey D. Keine



# Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 140 5' (H251919-25)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.85	92.3	2.00	0.373	
Toluene*	<0.050	0.050	04/02/2025	ND	1.96	97.8	2.00	0.0378	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.00	99.9	2.00	0.591	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.21	103	6.00	0.831	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	99.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.9	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



03/31/2025

# Analytical Results For:

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

Received: 04/01/2025 Sampling Date: Reported: 04/07/2025 Sampling Type:

ma/ka

Reported: 04/07/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 141 5' (H251919-26)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.85	92.3	2.00	0.373	
Toluene*	<0.050	0.050	04/02/2025	ND	1.96	97.8	2.00	0.0378	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.00	99.9	2.00	0.591	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.21	103	6.00	0.831	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	86.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.0	% 40.6-15	3						

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Celey D. Keene



# Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 142 4' (H251919-27)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.85	92.3	2.00	0.373	
Toluene*	<0.050	0.050	04/02/2025	ND	1.96	97.8	2.00	0.0378	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.00	99.9	2.00	0.591	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.21	103	6.00	0.831	
Total BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	95.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.8	% 40.6-15	3						

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Celey D. Keine



# Analytical Results For:

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

Received: 04/01/2025 Sampling Date: 03/31/2025

Reported: 04/07/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: FS 143 4' (H251919-28)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	1.85	92.3	2.00	0.373	
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.8	2.00	0.0378	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	99.9	2.00	0.591	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.21	103	6.00	0.831	
Total BTEX	<0.300	0.300	04/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/02/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					
Surrogate: 1-Chlorooctane	97.1	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	90.9	% 40.6-15	3						

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# **Notes and Definitions**

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

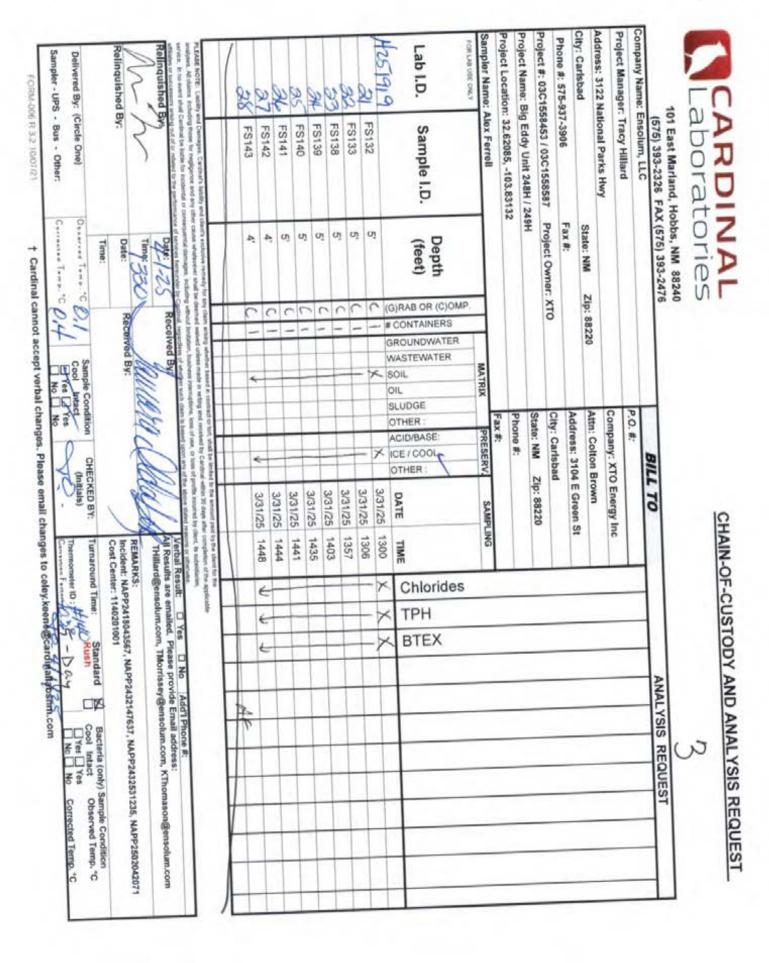
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Celey D. Keine

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Sy: Circle One)	3	ad Danages. Cardinars servey and and those for nephperics and any of artificial be liable for incidential or or	FS120	FS119	FS118	FS110	FS115	FS114	FS111	FS110	FS109		Sample I.D.	lex Ferrell	Project Location: 32.62085, -103.83132	Project Name: Big Eddy Unit 248H / 249H	Project #: 03C1558453 / 03C1558587	7-3906		tional Parks Hwy	Tracy Hillard	nsolum, LLC	101 East Marland, Hobbs, NM 88240
Date:	DE Godu	no cause verationeer shall essequential damages, india nos of sandoes herescook: I	5's	Ož.	σ <sub>2</sub> σ	uŋ (	un c	n co	OŽ	O)	cj		Depth (feet)		2	H69	Project Owner: XTO	Fax#:	State: NM				obbs, NM 882 X (575) 393-24
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e: Cool Intack  Co	era Walaster	in writing and received of wearing and it is writtened to surrigations, loan of use, or force of the above stated it such claim is based upon any of the above stated	deal and	3/31/25	3/31/25	3/31/25	3/31/25	3/31/25	3/31/25	3/31/25	1	Κ,	SLUDGE OTHER: ACID/BASE: ICE/COOL OTHER:	PRESERV. SAMPLING	Fax#:	1	City: California 7in: 88220	Addition of the	Address: 1104 E Green St	Company: ATO Circigo	P.O. #:	BILL TO	
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Cost Center: 1140201001  Cost Center: 1140201001  Cost Center: 1140201001  Cost Center: 1140201001  Standard S Bacteria (only) Sample Condition  Turnaround Time: Standard S Cool Intact Observed Temp. "C	I Results are emailed. Please provide Email acciness.  THillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com  THILLARD THE THIRD THE TABLE THE THIRD THE	Add Phone #:																					ANALYSIS REQUEST

	Relinquished By:	Relinquished By:	service. It no event shall Card settledes or suppressors where or	PLEASE NOTE: Limbery and D analyses. At claims, including to	20	-	S. E	17 F	// <sub>6</sub> F	).S F		131 F	12 E	/ F	1000ch	Lab I.D.	Sampler Name: Alex Ferrell	Project Location: 32.62085, -103.83132	Project Name: Big Eddy Unit 248H / 249H	Project #: 03C1558453 / 03C1558587	Phone #: 575-937-3906	City: Carlsbad	Address: 3122 National Parks Hwy	Project Manager: Tracy Hillard	Company Name: Ensolum, LLC	(67	La	
Delivered By: (Circle One)		)	out of or related to the performan	emages. Cardinat's liability and hose for ond/species and any offi	FS131	FS130	FS129	FS128	FS127	FS126	FS125	FS124	FS122	FS121		Sample I.D.	x Ferrell	.62085, -103.83132	ddy Unit 248H / 24	53 / 03C1558587	906		nal Parks Hwy	acy Hillard	olum, LLC	26	aboratories	RDIN
1	Date:	77,23	ce of services hereunder b	or cause whatspewer shall be	5'	oj	ຜູ	ດຳ	υj	O3	6)	U)	OJ.	OJ.		Depth (feet)			He	Project Owner: XTO	Fax #:	State: NM				FAX (575) 393-2476	OFIES	NAL
'c 0.1 Sam	Received By:	100	Received By:	at be deemed waked unless man susing without trindation, business	4 4									C 1	G	S)RAB OR (C)OMP. CONTAINERS ROUNDWATER VASTEWATER OIL	MA.			XIO		71b: 90750	2000			ď	8 01	
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CHECKED BY:	1		ON ALL DESCRIPTION OF THE PARTY	and by Cardical within 30 days at Use, or 3048 of profits incurred by	H.	3/31/25	3/31/25	3/31/25	3/31/25	301125	3/34/25	3/31/25	3/31/25	1	-	OTHER:	PRESERV. SAMPLING			M 7in: 88220	rishad	Address: 3104 E Green St	Attn: Colton Brown	Company: XTO Energy I		BILL TO		Ω
Turnaround Time:	REMARK Incident: Cost Cen	THillard	Verbal Results	cliert, its subsidiaries	Cay the clients for	751	14.00					1204		_	1142	ЭМП	LING					St		inc				HAIN-O
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Cool Instact Observed Temp. 'C	1321476	THillard@ensolum.com, TMorrissey@ensolum.com, Ninomasourgensolum.com	Verbal Result:   Yes No Add Phone *:  All Results are emailed. Please provide Email address:  **Thomason Bensolum.co																							ANALYSIS REQUEST	2	CHAIN-OF-CUSTOUT AND ANALTOIS





April 09, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/03/25 13:15.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/02/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

# Sample ID: FS 72 A 4' (H251978-01)

BTEX 8021B

BIEX GOETS	9/	9	Andryzo	u 5 y : 5 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85	
Total BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/04/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2025	ND	194	97.1	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	206	103	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					
Surrogate: 1-Chlorooctane	74.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	67.0	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: Reported: 04/09/2025

BIG EDDY UNIT 248H & 249H

Sampling Type:

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

04/02/2025

Soil

Project Number: 03C1558453 & 03C1558577 Project Location: XTO 32.62085-103.83132

# Sample ID: FS 91 A 4' (H251978-02)

Project Name:

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85	
Total BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/04/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2025	ND	194	97.1	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	206	103	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					
Surrogate: 1-Chlorooctane	77.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	69.8	% 40.6-15	3						

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Celey D. Keine



# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/02/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

# Sample ID: FS 90 A 4' (H251978-03)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85	
Total BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/04/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					
Surrogate: 1-Chlorooctane	97.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	99.1	% 40.6-15	3						

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Celeg D. Kreene



# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/02/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

# Sample ID: SW 08 0-4' (H251978-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85	
Total BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/04/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					
Surrogate: 1-Chlorooctane	99.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	100	% 40.6-15	3						

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Celeg D. Keene



# **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.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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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Celeg D. Kreene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Company Name:	r: Tracy Hillard		$\Box$			0			BILL TO			1	-	ANA	ANALYSIS	REQ	REQUEST
Project Manage	Project Manager: Tracy Hillard					P.O.	#										
Address: 3122 N	Address: 3122 National Parks Hwy					Co	mpa	any: XTO	Company: XTO Energy Inc	Inc						_	_
City: Carlsbad		State: NM	Zip: 88220	00	20	Att	n: C	Attn: Colton Brown	rown					_	_	_	_
Phone #: 575-937-3906	937-3906	Fax #:				Ad	dres	ss: 3104	Address: 3104 E Green St	St					_	_	
Project #: 03C15	Project #: 03C1558453 / 03C1558577	Project Owner: XTO	:XTC	0		CH	Y: C	City: Carlsbad						_			
Project Name: B	Project Name: Big Eddy Unit 248H / 249H	249H				Sta	State: NM		Zip: 88220	0			_	_		_	_
Project Location	Project Location: 32.62085, -103.83132	32				Ph	Phone #:	*								_	_
Sampler Name: Alex Ferrell	Alex Ferrell					Fax #:	#										_
ATHO 350 BYT BOJ				_	MATRIX	Ш	PRE	PRESERV.	SAME	SAMPLING	_		_	_		_	_
Lab I.D	Sample I.D.	Depth (feet)	AB OR (C)OMP.	NTAINERS		ER:	VBASE:	COOL ER:			hlorides	PH	TEX				
H25/978			_		-	OTHE		OTHE	DATE	TIME	Ch	TP	ВТ				
-	FS72A	4:		-					4/2/25	1117	×	X	X				
2	FS91A	4:	-	-	X			*	4/2/25	1121	×	X	×	-			
w	FS90A	4.	-		K			×	4/2/25	1125	×	×	X				
4	SWVS	0-4"	6	(	×			7	4/2/25	1402	x	1	×	Н			
1				-									D	+			+
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PLEASE NOTE: Liability and	of Damajen, Cardinella liability and in films for cardinates and see who writing he bases for profession or con-	Berli's exclusive remark to the	out of	1 1 2	sheller based it control orders make in utilize ne- re, brainess bismorrisms	111	111	E be bridged to the	Side of	god by the client for the receptainty of the resident the extraction	1 1						
Relinquished By:	7	S2-5-46	Re	N N	Received By:	=	11	1	1	Verbal Result:   All Results are emailed THillard@ensolum.co	s are er	☐ Yes mailed. I furn.com	Please pro m, TMorriss	Add ovide Er sey@en	erbal Result:   Yes   No   AddTPhone #:    Results are emailed. Please provide Email address:   THillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com	S: KTho	mason
Relinquished By:	7	Date:	Rec	elvi	Received By:	1	- 5	1	9	REMARKS: Incident: NAPP241804366 Cost Center: 1140201001	S: NAPP2 ter: 114	418043	567, NAPE	2432147	REMARKS: Incident: NAPP2418043567, NAPP2432147637, NAPP2432531236, NAPP2502042071 Cost Center: 1140201001	243253	31235, N
Delivered By: (Circle One) Sampler - UPS - Bus - Ot	ber	Currented Temp. "C	cin	. 0	Sample Condition	· · · ·	0 -	(Initials)	DBY:	Turnaround Time	or ID:	ST.	Standard Rush		Bacteria (only) Sample Condition Cool Intact Observed Temp.    Yes   Yes     No No Corrected Temp.	Yes No	Sample Condition Observed Temp. "C



April 09, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/03/25 13:15.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/01/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 69 4' (H251979-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85	
Total BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	131	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/04/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					
Surrogate: 1-Chlorooctane	90.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.7	% 40.6-15	3						

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Celey D. Keene



# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/01/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 03C1558453 & 03C1558577

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 83 4' (H251979-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85	
Total BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/04/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					
Surrogate: 1-Chlorooctane	88.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.9	% 40.6-15	3						

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Celey D. Keene



# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/01/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C1558453 & 03C1558577 Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 84 4' (H251979-03)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85	
Total BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/04/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					
Surrogate: 1-Chlorooctane	94.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	95.2	% 40.6-15	3						

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Celey D. Keine



# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/01/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 90 4' (H251979-04)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/07/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.67	128	6.00	6.85	
Total BTEX	<0.300	0.300	04/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/04/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					
Surrogate: 1-Chlorooctane	90.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.7	% 40.6-15	3						

# Cardinal Laboratories \*=Accredited Analyte

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# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/01/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03C1558453 & 03C1558577 Sample Received By:

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 71 4' (H251979-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/07/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.67	128	6.00	6.85	
Total BTEX	<0.300	0.300	04/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	130 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/04/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					
Surrogate: 1-Chlorooctane	90.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.9	% 40.6-15	3						

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# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/01/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 91 4' (H251979-06)

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	04/07/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/07/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.67	128	6.00	6.85	
Total BTEX	<0.300	0.300	04/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	130	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/04/2025	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	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					
Surrogate: 1-Chlorooctane	83.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.1	% 40.6-15	3						

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# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/01/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 87 4' (H251979-07)

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	04/07/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/07/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.67	128	6.00	6.85	
Total BTEX	<0.300	0.300	04/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/04/2025	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	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					
Surrogate: 1-Chlorooctane	86.7	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	87.9	% 40.6-15	3						

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# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/01/2025

Reported: 04/09/2025 Sampling Type: Soil Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 72 4' (H251979-08)

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	04/06/2025	ND	1.97	98.3	2.00	2.12	
Toluene*	<0.050	0.050	04/06/2025	ND	1.99	99.7	2.00	0.00491	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.09	104	2.00	1.96	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	6.52	109	6.00	2.37	
Total BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/04/2025	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	04/05/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					
Surrogate: 1-Chlorooctane	81.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.3	% 40.6-15	3						

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# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/01/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Project Location: XTO 32.62085-103.83132

# Sample ID: FS 73 4' (H251979-09)

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	04/06/2025	ND	1.97	98.3	2.00	2.12	
Toluene*	<0.050	0.050	04/06/2025	ND	1.99	99.7	2.00	0.00491	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.09	104	2.00	1.96	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	6.52	109	6.00	2.37	
Total BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
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	04/04/2025	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	04/05/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					
Surrogate: 1-Chlorooctane	86.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.6	% 40.6-15	3						

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# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/01/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03C1558453 & 03C1558577 Sample Received By:

Project Location: XTO 32.62085-103.83132

# Sample ID: CS 60 0.5' (H251979-10)

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	04/06/2025	ND	1.97	98.3	2.00	2.12	
Toluene*	<0.050	0.050	04/06/2025	ND	1.99	99.7	2.00	0.00491	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.09	104	2.00	1.96	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	6.52	109	6.00	2.37	
Total BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
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	04/04/2025	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	04/05/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					
Surrogate: 1-Chlorooctane	82.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.0	% 40.6-15	3						

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# Analytical Results For:

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

Received: 04/03/2025 Sampling Date: 04/01/2025

Reported: 04/09/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

# Sample ID: CS 59 0.5' (H251979-11)

RTFY 8021R

BIEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2025	ND	1.97	98.3	2.00	2.12	
Toluene*	<0.050	0.050	04/06/2025	ND	1.99	99.7	2.00	0.00491	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.09	104	2.00	1.96	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	6.52	109	6.00	2.37	
Total BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	04/04/2025	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	04/05/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					
Surrogate: 1-Chlorooctane	80.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.6	% 40.6-15	3						

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# **Notes and Definitions**

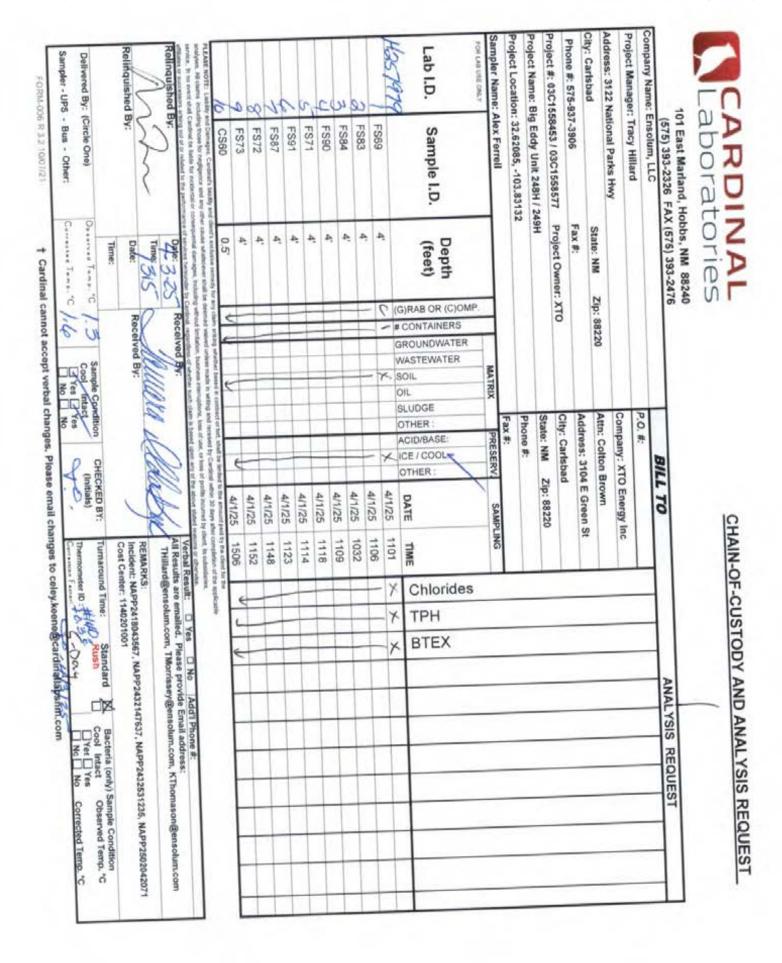
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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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Relinquished By:  Delivered By: (Circle One)  Sampler - UPS - Bus - Ott	Relinquished By:	MLEASE NOTE: Labely and De			HPMIN	in mo	Lab I.D.	Sampler Name: Alex Ferrell	Project Location:	Project Name: Bi	Project #: 03C155	Phone #: 575-937-3906	City: Carlsbad	Address: 3122 National Parks Hwy	Project Manager: Tracy Hillard	Company Name: Ensolum, LLC		
tellinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Cautinal to Bable for incidental or sing out of or selded to the perform by:	and Demages, Cardinal's leadily and closes for negligency and all their street streets.			CS59		Sample I.D.	Jex Ferrell	Project Location: 32.62085, -103.83132	Project Name: Big Eddy Unit 248H / 249H	Project #: 03C1558453 / 03C1558577	7-3906		tional Parks Hwy	Tracy Hillard	nsolum, LLC	(575) 393-2326 FAX (575) 393-2476	aboratories
Date: Time: Corrected Temp.	Date: 32.	of claus's authorise remaily for any other cause whetherers shall be de-			0.5		Depth (feet)		2	49H	Project Owner: X10	Fax #:	NN				X (575) 393-247	)Oratories st Marland, Hobbs, NM 88240
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BY: Turnaround Time:  By: Turnaround Time:  Cost Center: 1140201001  Cost Center: 1140201001	All Results are THallard@end	sencent past by the client for the 50 days where completion of the applic property by client, in subscillation,			411/25 1531	TIME		SAMPLING			8220		reen St		rgy Inc		0	
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NAPP2432531  Intact Intact Yes Yes No No No No No	erbal Result:			A.													ANALYSIS REQUEST	
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April 08, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/07/25 11:46.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 04/07/2025 Sampling Date: 04/04/2025

Reported: 04/08/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558577 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 32 2' (H252033-01)

DTEV 0021D

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2025	ND	2.02	101	2.00	18.1	
Toluene*	<0.050	0.050	04/07/2025	ND	1.96	97.9	2.00	19.2	
Ethylbenzene*	< 0.050	0.050	04/07/2025	ND	2.03	101	2.00	19.1	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.34	106	6.00	19.2	
Total BTEX	<0.300	0.300	04/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/07/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2025	ND	197	98.6	200	0.709	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	207	103	200	0.0271	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					
Surrogate: 1-Chlorooctane	94.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.5	% 40.6-15	3						

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

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

Received: 04/07/2025 Reported: 04/08/2025

04/08/2025 BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN Project Number: 03C1558577

Project Location: XTO 32.62085-103.83132

Sampling Date: 04/04/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: FS 43 4' (H252033-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2025	ND	2.02	101	2.00	18.1	
Toluene*	<0.050	0.050	04/07/2025	ND	1.96	97.9	2.00	19.2	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	19.1	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.34	106	6.00	19.2	
Total BTEX	<0.300	0.300	04/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/07/2025	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2025	ND	197	98.6	200	0.709	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	207	103	200	0.0271	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					
Surrogate: 1-Chlorooctane	99.7	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	97.8	% 40.6-15	3						

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Celey D. Keine



### Analytical Results For:

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

Received: 04/07/2025 Reported: 04/08/2025

BIG EDDY UNIT 248H & 249H

ma/ka

Project Name: BIG EDDY UI
Project Number: 03C1558577

Project Location: XTO 32.62085-103.83132

Sampling Date: 04/04/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: FS 46 5' (H252033-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2025	ND	2.02	101	2.00	18.1	
Toluene*	<0.050	0.050	04/07/2025	ND	1.96	97.9	2.00	19.2	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	19.1	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.34	106	6.00	19.2	
Total BTEX	<0.300	0.300	04/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/07/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2025	ND	197	98.6	200	0.709	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	207	103	200	0.0271	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					
Surrogate: 1-Chlorooctane	97.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.8	% 40.6-15	3						

Applyzod By: 14

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Celey D. Keine



## Analytical Results For:

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

Received: 04/07/2025

Sampling Date:

Reported: Project Name: 04/08/2025

Sampling Type: Soil

Project Name.

BIG EDDY UNIT 248H & 249H

Sampling Condition: Cool & Intact

Project Number:

BTEX 8021B

03C1558577

mg/kg

Sample Received By:

Shalyn Rodriguez

04/04/2025

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 49 7' (H252033-04)

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2025	ND	2.02	101	2.00	18.1	
Toluene*	<0.050	0.050	04/07/2025	ND	1.96	97.9	2.00	19.2	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	19.1	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.34	106	6.00	19.2	
Total BTEX	<0.300	0.300	04/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/07/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2025	ND	197	98.6	200	0.709	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	207	103	200	0.0271	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					
Surrogate: 1-Chlorooctane	91.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	85.8	% 40.6-15	3						

Analyzed By: JH

## Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



### **Notes and Definitions**

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

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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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Celeg D. Kreene

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# 101 East Marland, Hobbs, NM 88240

Company Name: Ensolum, LLC  Project Manager: 774 At Iller &  Address: 601 N Marienfeld Street, Suite 400 City: Midland Sta  Phone #: 2575-137-3506 Fax  Project Name: 674 Edg Unit  Project Name: 675 Edg Unit  Sampler Name: 876 Lab I.D.  Sampler Name: 876 Lab I.D.  Lab I.D. Sample I.D.  POR UB UBE ONLY  FOR UB UBE ONLY  FOR UB UBE ONLY  A SA			200		ANA	LASIS BEUIEST	TOT
Address: 601 N Marienfeld Stree City: Midland  Phone #: \$2575.137-3  Project #:032 1558577  Project Name: \$3, 624 U  Project Name: \$3, 624 U  Project Name: \$3, 62  Sampler Name: \$2, 62  Sample I.I.  Pros. U8 USE CHUY  FOR U8 USE CH	nm, LLC		B/14 10		-	The state of the s	-
Address: 601 N Marienfeld Stree  City: Midland  Phone #: \$25.137.3  Project #:032   \$5 8577  Project Name: \$3, \$245    Project Location: 32.62  Sampler Name: \$25 45    FOR URE USE ONLY  FOR USE ONLY  FO	es ofillerd				_		
City: Midland Phone #: \$255.137-3 Project #: 034   \$55577 Project Name: \$3, 624   1 Project Location: 32.62 Sampler Name: \$252.62 Sampler Name: \$252.62 FCR. Life USE City.  FCR.	eld Street, Suite 400		Company: XTO Energy, Inc.	, Inc	_	_	
Project #: 9\$ 575-137-3  Project Name: Dy & Ly   Self   Se	State: TX	Zip: 79701	Attn: Colton Brown			_	
Project #032 ISS 8577  Project Name: Dy Aug I  Project Location: 32.62  Sampler Name: Aug. 1  Sample I.I.  Relinquished By:  Relinquished By:	\$75.837-3906 Fax #:		Address: 3104 E Greene St	ne St	_		
San	\$77 Project Owner:	er: XTO Energy	City: Carlsbad		_		
S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Unit		State: NM Zip: 88220	80			
Sa S	62085	-103. 63132	Phone #:			_	
Sample Sa	7		1			_	
\$5 4 \$5 4 \$5 4 \$5 4		WATER	DL SERV		e 4500		
\$5 4 \$54 \$54 \$5 4	(ioos)	(G)RAB # CONTA GROUN WASTEN SOIL OIL SLUDGE	OTHER ACID/BA ICE / CO OTHER	TPH 8			
FS 4 FS 4 FS 4 FS 4 FS 4	32 2		V 4.425	1451	3		
\$54 \$5 4 South to complete the control of the contr	4 St	2	× 44.2	7	(		
\$5 4 Commanda, Cardo tron to neighbor tron trong t		2	V 4.4.3	1419	<		
Dumagas, Carde from tis insights frost to insights out at an enlated for	7	01	V 7-42	1429 1	4		
Demagas, Cardinos ficas to sapling from the sades for saplings and of an entitletic field of the entitletic field.							
final to indicate for not detail for not define relations for not relations.	of labely and clears without rema-	edy for any chilm arrang advictor based in contrast or tops, shall be in-	dad in the amount	paid by the class for the after completion of the applicable			
Relinquished By:	2000	Received By:	w is to anothing to the approximated to	Verbal Result:   All Results are email	Yes □ No led. Please prov	Add'l Phone #: ide Email address: nscium.com,	
	Date:	Received By:	0	REMARKS: Incident Number Cost Center. [1]	REMARKS: Incident Number: Cost Center,    1402Ctoct	Name of the last o	nAPP2418043567 nAPP2432147637 nAPP2432531235
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Other: Corrected Temp.	Sample Condition Cool Intact Cool No. No.	tion CHECKED BY: (finitials)	Turnaround Time:	Standard U	Bacteria (only) ! Cool Intact Oyer Yes No No	Bacteria (only) Sample Condition Cool Infact Observed Temp. "C Yes Yes No Corrected Temp. "C



April 16, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/11/25 15:44.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



04/10/2025

Cool & Intact

Alyssa Parras

Soil

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

### Analytical Results For:

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

Received: 04/11/2025 Reported:

04/16/2025

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453 Project Location: XTO-EDDY CO., NM

Sample ID: FS 29 4 (H252181-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	110 5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	110 9	% 40.6-15	3						

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Celey D. Keene



04/10/2025

Cool & Intact

Alyssa Parras

Soil

### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

04/16/2025 Sampling Type:
BIG EDDY UNIT 248H & 249H Sampling Condition:

Sampling Date:

Sample Received By:

Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sample ID: FS 30 4 (H252181-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	102	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	101	% 40.6-15	3						

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\*=Accredited Analyte

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### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/10/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

ma/ka

### Sample ID: FS 48 4 (H252181-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	102	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	101	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/10/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

### Sample ID: FS 50 7 (H252181-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	112 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	111 %	6 40.6-15	3						

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### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

### Sample ID: FS 51 7 (H252181-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	17.8	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	101	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	101	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

### Sample ID: FS 52 7 (H252181-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	13.9	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	105	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

### Sample ID: FS 54 7 (H252181-07)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	13.4	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	90.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	98.5	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/10/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

ma/ka

### Sample ID: FS 55 7 (H252181-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	97.2	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	50.3	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	89.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	99.7	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

### Sample ID: FS 62 5 (H252181-09)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	91.1	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	95.2	% 40.6-15	3						

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Sampling Condition:

Sample Received By:

04/10/2025

Cool & Intact

Alyssa Parras

### Analytical Results For:

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

Received: 04/11/2025 Sampling Date:

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

### Sample ID: FS 63 3 (H252181-10)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	86.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.9	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/11/2025 Reported:

04/16/2025 BIG EDDY UNIT 248H & 249H

Project Name: Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

### Sample ID: FS 70 3 (H252181-12)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	< 0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	21.2	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	92.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.5	% 40.6-15	3						

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Celeg D. Keene



### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

ma/ka

Project Name: BIG EDDY UNIT :
Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

### Sample ID: FS 75 4 (H252181-13)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	88.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.3	% 40.6-15	3						

Applyzod By: 14

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Celeg D. Kreene



### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

### Sample ID: FS 76 4 (H252181-14)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	89.7	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	93.2	% 40.6-15.	3						

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Celey D. Keine



### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/10/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

### Sample ID: FS 79 3 (H252181-15)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	84.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.4	% 40.6-15	3						

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

04/16/2025 Sampling Type: S

Sampling Condition:

Sample Received By:

Project Name: BIG EDDY UNIT 248H & 249H

mg/kg

Project Number: 03C1558453
Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025 Sampling Type: Soil

> Cool & Intact Alyssa Parras

Sample ID: FS 80 3 (H252181-16)

BTEX 8021B

DILX GOZID	ıııg,	Ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	85.3	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	87.2	% 40.6-15.	3						

Analyzed By: JH

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Celeg D. Kreene



### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

**BIG EDDY UNIT 248H & 249H** 

Project Name: Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

### Sample ID: FS 81 3 (H252181-17)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	86.1	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	88.7	% 40.6-15	3						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

### Sample ID: FS 82 3 (H252181-18)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	86.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.8	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/10/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

ma/ka

### Sample ID: FS 85 3 (H252181-19)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	25.3	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	81.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	85.6	% 40.6-15	3						

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Celey D. Keine



### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

ma/ka

Project Name: BIG EDDY UNI Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

### Sample ID: FS 88 3 (H252181-20)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	85.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.6	% 40.6-15	3						

Applyzod By: 14

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Celey D. Keine



### Analytical Results For:

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

Received: 04/11/2025 Reported:

04/16/2025 BIG EDDY UNIT 248H & 249H

Project Name:

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

### Sample ID: FS 89 3 (H252181-21)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	89.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.8	% 40.6-15	3						

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\*=Accredited Analyte

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### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

Project Name:

Project Number: 03C1558453 Project Location: XTO-EDDY CO., NM Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Alyssa Parras Sample Received By:

### Sample ID: FS 92 3 (H252181-22)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500Cl-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	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	86.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.9	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/11/2025 Reported:

04/16/2025

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453 Project Location:

XTO-EDDY CO., NM

Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

### Sample ID: FS 93 3 (H252181-23)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	87.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.3	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

04/16/2025 BIG EDDY UNIT 248H & 249H

mg/kg

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

### Sample ID: FS 94 3 (H252181-24)

BTEX 8021B

	9/	9	7111411720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	85.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	87.9	% 40.6-15	3						

Analyzed By: JH

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### Analytical Results For:

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

Received: 04/11/2025 Reported:

04/16/2025

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

### Sample ID: FS 95 5 (H252181-25)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	87.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.2	% 40.6-15	3						

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Sampling Condition:

Sample Received By:

04/10/2025

Cool & Intact

Alyssa Parras

### Analytical Results For:

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

Received: 04/11/2025 Sampling Date:

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

### Sample ID: FS 97 4 (H252181-26)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	86.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.3	% 40.6-15	3						

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### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

ma/ka

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

### Sample ID: FS 98 4 (H252181-27)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	89.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.7	% 40.6-15	3						

Applyzod By: 14

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Sample Received By:

04/10/2025

Alyssa Parras

### Analytical Results For:

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

Received: 04/11/2025 Sampling Date:

Reported: 04/16/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

### Sample ID: FS 99 4 (H252181-28)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
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	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	86.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.9	% 40.6-15	3						

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#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

ma/ka

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

# Sample ID: FS 100 4 (H252181-29)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	92.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.6	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



#### Analytical Results For:

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

Received: 04/11/2025 Reported:

04/16/2025

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/10/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

# Sample ID: FS 101 4 (H252181-30)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	88.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.6	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025 Sampling Date:
Sampling Type:

Project Name: BIG EDDY UNIT 248H & 249H

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

04/10/2025

Soil

Project Number: 03C1558453 Project Location: XTO-EDDY C

XTO-EDDY CO., NM

mg/kg

#### Sample ID: FS 102 4 (H252181-31)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	89.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.9	% 40.6-15	3						

Analyzed By: JH

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Celey D. Keene



#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

ma/ka

# Sample ID: CS 57 A 2 (H252181-32)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	27.7	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	86.9	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	81.1	% 40.6-15	3						

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#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

# Sample ID: SW 04 0-2 (H252181-33)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	77.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.1	% 40.6-15	3						

Applyzod By: 14

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#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Alyssa Parras

Project Location: XTO-EDDY CO., NM

#### Sample ID: SW 05 0-2 (H252181-34)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	89.1 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.69	% 40.6-15	3						

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04/11/2025

Alyssa Parras

#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date:

Reported: 04/16/2025 Sampling Type: Soil Cool & Intact

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Sample Received By: Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

#### Sample ID: SW 06 0-2 (H252181-35)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	129 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	29.7	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	83.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	79.2	% 40.6-15	3						

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#### Analytical Results For:

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

Received: 04/11/2025

Sampling Date: 04/11/2025

Reported: 04/16/2025
Project Name: BIG EDDY UNIT 248H & 249H

Sampling Type: Soil
Sampling Condition: Cool & Intact

Project Number: 03C1558453

Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

#### Sample ID: SW 07 0-4 (H252181-36)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	78.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	73.9	% 40.6-15	3						

Applyzod By: 14

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#### Analytical Results For:

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

Received: 04/11/2025 Reported:

04/16/2025

Project Name: BIG EDDY UNIT 248H & 249H Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

# Sample ID: SW 09 0-3 (H252181-37)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	93.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.0	% 40.6-15	3						

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Celey D. Keine



04/11/2025

Alyssa Parras

#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

04/16/2025 Sampling Type: Soil
BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact

Sampling Date:

Project Name: BIG EDDY UNIT 248H & 249H

Project Location: XTO-EDDY CO., NM

Project Number: 03C1558453 Sample Received By:

# Sample ID: SW 10 0-3 (H252181-38)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	< 0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	77.4	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	71.5	% 40.6-15	3						

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\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

# Sample ID: SW 11 0-3 (H252181-39)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	63.2	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	10.4	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	86.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.6	% 40.6-15	3						

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Celeg D. Keene



#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

#### Sample ID: SW 12 0-3 (H252181-40)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	130 9	71.5-13	4						
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	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	86.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	79.4	% 40.6-15	3						

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Celey D. Keene



#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

ma/ka

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

# Sample ID: FS 45 5 (H252181-41)

Project Name:

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13-	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	82.2	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	77.2	% 40.6-15.	3						

Applyzod By: 14

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Celey D. Keine



#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

# Sample ID: FS 77 5 (H252181-42)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	84.6	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	79.3	% 40.6-15	3						

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Celey D. Keene



04/11/2025

Alyssa Parras

#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

04/16/2025 Sampling Type: Soil
BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By:

Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

#### Sample ID: FS 78 5 (H252181-43)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	82.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.5	% 40.6-15	3						

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Celey D. Keene



#### Analytical Results For:

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

Received: 04/11/2025 Reported:

04/16/2025 BIG EDDY UNIT 248H & 249H

Project Name: Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

# Sample ID: FS 96 6 (H252181-44)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	127 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	86.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.1	% 40.6-15	3						

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Celey D. Keene



#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

ma/ka

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

# Sample ID: FS 103 4 (H252181-45)

RTFY 8021R

BIEX 8021B	mg,	/ Kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (Pa	ID 128 :	% 71.5-13	34						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2025	ND	416	104	400	0.00	
ГРН 8015М	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	83.5	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	77.5	% 40.6-15	3						

Applyzod By: 14

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04/11/2025

Cool & Intact

Alyssa Parras

Soil

#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

04/16/2025 Sampling Type:
BIG EDDY UNIT 248H & 249H Sampling Condition:

Sampling Date:

Sample Received By:

Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453

ma/ka

Project Location: XTO-EDDY CO., NM

7.10 =

Sample ID: FS 104 4 (H252181-46)

RTFY 8021R

BIEX 8021B	mg/	кд	Anaiyze	а ву: эп					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chlorido	22.0	16.0	04/14/2025	ND	416	104	400	0.00	

Applyzod By: 14

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.4-145 Surrogate: 1-Chlorooctadecane 81.1 % 40.6-153

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Celey D. Keine



04/11/2025

Alyssa Parras

#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date:

Reported: 04/16/2025 Sampling Type: Soil Cool & Intact

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Project Number: 03C1558453 Sample Received By:

Project Location: XTO-EDDY CO., NM

#### Sample ID: SW 21 0-4 (H252181-47)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13	4						
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	04/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	71.4	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	28.8	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	87.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.3	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

#### Sample ID: SW 22 0-5 (H252181-48)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13-	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	68.3	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	23.9	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	89.3	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	84.7	% 40.6-15.	3						

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Celey D. Keene



Sample Received By:

04/11/2025

Alyssa Parras

#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date:

Reported: 04/16/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

# Sample ID: SW 23 0-7 (H252181-49)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13	4						
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	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	87.2	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	36.6	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	88.3	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	82.5	% 40.6-15	3						

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Celey D. Keene



#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

# Sample ID: SW 24 0-7 (H252181-50)

BTEX 8021B	mg/	'kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	129 9	% 71.5-13	4						
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	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	89.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.9	% 40.6-15	3						

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Celey D. Keine



#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

#### Sample ID: SW 25 0-7 (H252181-51)

RTFY 8021R

Result   Reporting Limit   Analyzed   Method Blank   BS   % Recovery   True Value QC   RPD	BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Toluene* < 0.050	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* <0.050 0.050 04/14/2025 ND 1.96 98.2 2.00 0.828  Total Xylenes* <0.150 0.150 04/14/2025 ND 6.49 108 6.00 0.461  Total BTEX <0.300 0.300 04/14/2025 ND  Surrogate: 4-Bromofluorobenzene (PID 127 % 71.5-134  Chloride, SM4500Cl-B mg/ky Analyzed By: AC  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  Chloride 16.0 16.0 04/14/2025 ND 432 108 400 3.77  TPH 8015M mg/ky Analyzed By: ms  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10* <10.0 10.0 04/14/2025 ND 205 102 200 1.53  DRO >C10-C28* <10.0 10.0 04/14/2025 ND 205 102 200 0.573  EXT DRO >C28-C36 <10.0 10.0 04/14/2025 ND  Surrogate: 1-Chlorooctane 92.1 % 44.4-145	Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51	
Total Xylenes*         <0.150         0.150         04/14/2025         ND         6.49         108         6.00         0.461           Total BTEX         <0.300	Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Total BTEX         <0.300         0.300         04/14/2025         ND           Surrogate: 4-Bromofluorobenzene (PID         127 % 71.5-134           Chloride, SM4500Cl-B         mg/ky         Analyzed By: AC           Chloride         Result         Reporting Limit         Analyzed By: mS         % Recovery         True Value QC         RPD           Chloride         16.0         16.0         04/14/2025         ND         432         108         400         3.77           TPH 8015M         mg/ky         Analyzed By: ms           Analyte         Result         Reporting Limit         Analyzed Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         <10.0	Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Surrogate: 4-Bromofluorobenzene (PID         127 % 71.5-134           Chloride, SM4500Cl-B         mg/ky         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           Chloride         16.0         16.0         04/14/2025         ND         432         108         400         3.77           TPH 8015M         mg/ky         Analyzed By: ms           Analyte         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         <10.0	Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Chloride, SM4500Cl-B         mg/kg         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           Chloride         16.0         16.0         04/14/2025         ND         432         108         400         3.77           TPH 8015M         mg/kg         Analyzed By: ms         Wethod Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         < 10.0	Total BTEX	<0.300	0.300	04/14/2025	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  Chloride 16.0 16.0 04/14/2025 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  GRO C6-C10* <10.0 10.0 04/14/2025 ND 205 102 200 1.53  DRO >C10-C28* <10.0 10.0 04/14/2025 ND 200 100 200 0.573  EXT DRO >C28-C36 <10.0 10.0 04/14/2025 ND  Surrogate: 1-Chlorooctane 92.1 % 44.4-145	Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13	4						
Chloride         16.0         16.0         04/14/2025         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           GRO C6-C10*         <10.0	Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
TPH 8015M         mg/kg         Analyzed by: ms           Analyte         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10* <10.0 10.0 04/14/2025 ND 205 102 200 1.53  DRO >C10-C28* <10.0 10.0 04/14/2025 ND 200 100 200 0.573  EXT DRO >C28-C36 <10.0 10.0 04/14/2025 ND  Surrogate: 1-Chlorooctane 92.1 % 44.4-145	Chloride	16.0	16.0	04/14/2025	ND	432	108	400	3.77	
GRO C6-C10* <10.0 10.0 04/14/2025 ND 205 102 200 1.53 DRO >C10-C28* <10.0 10.0 04/14/2025 ND 200 100 200 0.573 EXT DRO >C28-C36 <10.0 10.0 04/14/2025 ND  Surrogate: 1-Chlorooctane 92.1 % 44.4-145	TPH 8015M	mg,	/kg	Analyze	d By: ms					
DRO >C10-C28* < 10.0 10.0 04/14/2025 ND 200 100 200 0.573  EXT DRO >C28-C36 <10.0 10.0 04/14/2025 ND  Surrogate: 1-Chlorooctane 92.1 % 44.4-145	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 04/14/2025 ND  Surrogate: 1-Chlorooctane 92.1 % 44.4-145	GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
Surrogate: 1-Chlorooctane 92.1 % 44.4-145	DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
	EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctadecane 85.7 % 40.6-153	Surrogate: 1-Chlorooctane	92.1	% 44.4-14	5						
	Surrogate: 1-Chlorooctadecane	85.7	% 40.6-15	3						

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Celey D. Keene



#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

# Sample ID: SW 26 0-7 (H252181-52)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84	
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	86.0	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	79.6	% 40.6-15	3						

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Celey D. Keine



#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

Project Name: **BIG EDDY UNIT 248H & 249H** 

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

# Sample ID: SW 13 0-4 (H252181-53)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84	
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	96.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.8	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

#### Sample ID: SW 14 0-4 (H252181-54)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84	
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	82.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.7	% 40.6-15	3						

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#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

# Sample ID: SW 15 0-5 (H252181-55)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84	
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	81.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.1	% 40.6-15	3						

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#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

# Sample ID: SW 16 0-5 (H252181-56)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84	
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	93.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.2	% 40.6-15	3						

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#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

Project Name: Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

# Sample ID: SW 17 0-5 (H252181-57)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84	
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	95.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.5	% 40.6-15	3						

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#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

# Sample ID: SW 18 0-5 (H252181-58)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84	
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	94.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.8	% 40.6-15	3						

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04/11/2025

Cool & Intact

Alyssa Parras

Soil

#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

04/16/2025 Sampling Type:
BIG EDDY UNIT 248H & 249H Sampling Condition:

Analyzed By: JH

Sampling Date:

Sample Received By:

Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453

mg/kg

Project Location: XTO-EDDY CO., NM

Sample ID: SW 19 0-5 (H252181-59)

BTEX 8021B

EXT DRO >C28-C36

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84	
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Chloride, SM4500Cl-B  Analyte	<b>mg</b> ,	/kg Reporting Limit	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
,					BS 432	% Recovery	True Value QC	RPD 3.77	Qualifier
Analyte	Result	Reporting Limit	Analyzed 04/14/2025	Method Blank		,	-		Qualifier
Analyte  Chloride	Result	Reporting Limit	Analyzed 04/14/2025	Method Blank		,	-		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result  16.0  mg/	Reporting Limit 16.0	Analyzed 04/14/2025 Analyze	Method Blank ND d By: ms	432	108	400	3.77	

ND

04/14/2025

Surrogate: 1-Chlorooctane 95.4 % 44.4-145
Surrogate: 1-Chlorooctadecane 90.1 % 40.6-153

<10.0

10.0

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#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

#### Sample ID: SW 20 0-5 (H252181-60)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84	
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	97.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.7	% 40.6-15	3						

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#### Analytical Results For:

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

Received: 04/11/2025 Reported:

04/16/2025

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

#### Sample ID: SW 27 0-2 (H252181-61)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84	
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	22.5	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	98.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.1	% 40.6-15	3						

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Celey D. Keene



#### Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025 Sampling Date: 04/11/2025

Project Name:

Sampling Type: Soil BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453 Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

# Sample ID: SW 28 0-2 (H252181-62)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84	
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	27.1	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	95.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.8	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



#### Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

#### Sample ID: SW 29 0-2 (H252181-63)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84	
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46	
Total BTEX	<0.300	0.300	04/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	33.2	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					
Surrogate: 1-Chlorooctane	93.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.4	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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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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Celeg D. Keene

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April 24, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/21/25 11:35.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 04/21/2025 Reported: 04/24/2025

Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 / 03C1558577

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/17/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 31 4 (H252357-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2025	ND	2.05	102	2.00	4.31	
Toluene*	<0.050	0.050	04/22/2025	ND	2.20	110	2.00	2.12	
Ethylbenzene*	<0.050	0.050	04/22/2025	ND	2.05	103	2.00	3.02	
Total Xylenes*	<0.150	0.150	04/22/2025	ND	6.16	103	6.00	2.77	
Total BTEX	<0.300	0.300	04/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/22/2025	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2025	ND	221	110	200	2.53	
DRO >C10-C28*	25.3	10.0	04/22/2025	ND	219	109	200	8.23	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					
Surrogate: 1-Chlorooctane	82.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.0	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



### Analytical Results For:

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

Received: 04/21/2025

03C1558453 / 03C1558577

Reported: 04/24/2025 Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition:

Project Location: XTO-EDDY CO., NM Sampling Date: 04/17/2025

Sampling Type: Soil

Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 34 2 (H252357-02)

Project Number:

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2025	ND	2.05	102	2.00	4.31	
Toluene*	<0.050	0.050	04/22/2025	ND	2.20	110	2.00	2.12	
Ethylbenzene*	<0.050	0.050	04/22/2025	ND	2.05	103	2.00	3.02	
Total Xylenes*	<0.150	0.150	04/22/2025	ND	6.16	103	6.00	2.77	
Total BTEX	<0.300	0.300	04/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/22/2025	ND	416	104	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2025	ND	221	110	200	2.53	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	219	109	200	8.23	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					
Surrogate: 1-Chlorooctane	84.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.5	% 40.6-15	3						

### Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



04/17/2025

Soil

### Analytical Results For:

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

Received: 04/21/2025 Sampling Date: Reported: 04/24/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 / 03C1558577 Sample Received By: Tamara Oldaker

Project Location: XTO-EDDY CO., NM

### Sample ID: SW 21 0.5-4 (H252357-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2025	ND	2.05	102	2.00	4.31	
Toluene*	<0.050	0.050	04/22/2025	ND	2.20	110	2.00	2.12	
Ethylbenzene*	< 0.050	0.050	04/22/2025	ND	2.05	103	2.00	3.02	
Total Xylenes*	<0.150	0.150	04/22/2025	ND	6.16	103	6.00	2.77	
Total BTEX	<0.300	0.300	04/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/22/2025	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2025	ND	221	110	200	2.53	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	219	109	200	8.23	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					
Surrogate: 1-Chlorooctane	78.3	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	77.7	% 40.6-15	3						

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Celey D. Keine



### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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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Celeg D. Keene

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



nue of earnitive hymeutodes by Caudinal, regardens of whether such claim is based upon any or see above some creation or expression.	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:  Under control shall be broken to the annual paint by the district for the applicable of the annual paint by the district for the applicable of the a	1	Fax#:	22 102 575 102 5275 Phone # (575)	ENAN 11 - + 248 240	Project #: 03 C158/153 03 C158 Project Owner: XTO Energy City: Carlsbad	Phone # (575) 937 - 3906 Fax #: Address: 3104 E Greene St	City: Midland State: TX Zip: 79701 Attn: Colton Brown	Address: 501 N Marienfeld Street, Suite 400 Company: XTO Energy, Inc.	Project Manager: [rd(x) H   drd	Company Name: Ensolum, LLC
Verbal Result:	SOIL OIL SLUDGE OTHER: ACID/BASE: UCCOOL OTHER: ACID/BASE: ACID/BASE: ACID/BASE: ACID/BASE: ACID	PRESERV	1 V		State: NM Zip:		Address: 3104 E Greene St	Attn: Colton Brown			1. 1
Verbal Result:   Yes  No  Add'l Phone #:  All Results are emailed. Please provide Email address:  Bealiligensolum.com, TMorrissey@ensolum.com,  THäard@ensolum.com, KThomason@ensolum.com  REMARKS:	Chloride 4500										ANALYSIS REQUEST



March 10, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 03/06/2025

Reported: 03/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Applyand By 14

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 01 2.5' (H251370-01)

DTEV 0021D

BTEX 8021B	mg/	'kg	Analyze	d 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	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	/kg	Analyze	d 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	108 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	112 9	% 40.6-15	3						

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Celey D. Keine



### Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 03/06/2025

Reported: 03/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

### Sample ID: FS 02 2.5' (H251370-02)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	18.2	
TPH 8015M	mg,	/kg	Analyze	ed 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	108	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	110	% 40.6-15	3						

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Celey D. Keene



### Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 03/06/2025

Reported: 03/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

### Sample ID: FS 03 2.5' (H251370-03)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	18.2	
TPH 8015M	mg,	/kg	Analyze	ed 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	116	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	118	% 40.6-15	3						

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Celey D. Keene



### Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 03/06/2025

Reported: 03/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 04 2.5' (H251370-04)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a 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	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg	/kg	Analyze	d 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*	10.6	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	109	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	112	% 40.6-15	3						

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Celeg D. Keene



### Analytical Results For:

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

 Received:
 03/07/2025
 Sampling Date:
 03/06/2025

 Reported:
 03/10/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 05 2' (H251370-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg,	/kg	Analyze	d 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*	17.7	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	111 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	114	% 40.6-15	3						

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Celey D. Keine



### Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 03/06/2025

Reported: 03/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 & 03C1558587 Alyssa Parras

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 08 2' (H251370-06)

BTEX 8021B	mg/	kg	Analyze	d 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	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
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	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	kg	Analyze	d 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	194	97.1	200	0.892	
DRO >C10-C28*	127	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	29.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	116 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	124 9	% 40.6-15	3						

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Celey D. Keine



### Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 03/06/2025

Reported: 03/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 & 03C1558587 Alyssa Parras

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 09 2' (H251370-07)

BTEX 8021B	mg/	'kg	Analyze	d 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	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	'kg	Analyze	d 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	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	119 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	123 9	2% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 03/06/2025

Reported: 03/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 10 2' (H251370-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
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	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg,	/kg	Analyze	d 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	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	114	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	119	% 40.6-15	3						

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Celey D. Keine



### Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 03/06/2025

Reported: 03/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

### Sample ID: FS 11 2' (H251370-09)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg,	/kg	Analyze	d 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	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	121	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	125	% 40.6-15	3						

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Celey D. Keene



### Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 03/06/2025

Reported: 03/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 12 2' (H251370-10)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
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	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg	/kg	Analyze	d 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	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	112	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	117	% 40.6-15	3						

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### Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 03/06/2025

Reported: 03/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

### Sample ID: FS 13 2' (H251370-11)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	18.2	
TPH 8015M	mg,	/kg	Analyze	ed 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	194	97.1	200	0.892	
DRO >C10-C28*	113	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	13.2	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	110	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	118	% 40.6-15	3						

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### Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 03/06/2025

Reported: 03/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 & 03C1558587 Alyssa Parras

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 14 2' (H251370-12)

BTEX 8021B	mg/	kg	Analyze	d 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	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 71.5-13	4						
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	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	kg	Analyze	d 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	194	97.1	200	0.892	
DRO >C10-C28*	26.9	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	111 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	116 %	6 40.6-15	3						

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### Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 03/06/2025

Reported: 03/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 & 03C1558587 Sample Received By: Alyssa Parras

Project Location: XTO 32.62085-103.83132

### Sample ID: FS 15 2' (H251370-13)

BTEX 8021B	mg/	/kg	Analyze	d 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	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
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	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	'kg	Analyze	d 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	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	114 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	117 9	% 40.6-15	3						

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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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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	(575) 393-2326 FA	FAX (5/5) 393-24/6	o					١	١			50	000	2	FO				
Company Name:	Ensolum, LLC				BILL	170		1			MAN	100	ANALISIS NEGOLO	200	15	1	1	1	
Project Manager: Tracy Hillard	Tracy Hillard			70	P.O. #:		L												
Address: 3122 N	Address: 3122 National Parks Hwy	Q		0	Company: XTO Energy Inc.	D Energy I	nc.												
city: Carlsbad		State: NM	Zip: 88220	-	Attn: Colton Brown	grown											_		
311	575-937-3906			_	Address: 3104 E.	E. Green St.	St.										_		
	03C1558453 & 03C1558587	87 Project Owner:	er: XTO	0	city: Carlsbad	9											_		_
Project Name:	Big Eddy Unit 248 H	48 H & 249H		(0	State: NM Z	Zip: 88220													
Project Location:	32.62085,-103.83132	3132		7	Phone #:														
Sampler Name: Jesse Dorman	esse Dorman			7	Fax#:				ī	ī									
ATMO 39/1 BY 1404				MATRIX	PRESERV	SAMPLING	G		E										
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE	OTHER: ACID/BASE ICE / COOL TOTHER:		BTEX	<b></b>	CHLORIDE							1			
OL SICOH	1301 1301	2.5	-		>	1 56.9%	2000	- 4	7										
IEW	trost trost	v.					20 00 TS												
اعلاه	£508						2000												
200	FSU/	4	*	e-	+	1	300 001		-						+	$\vdash$	+	+	
PLEASE NOTE: Labely and Dan analyses. All claims including the service. It my event shall Cardinal	d Danages, Cardinath fability and clients o g mosa for regispense and any other cause cliest be liable for incidental or consequent	died's exclusive what to an er cause whatcover shall be d expectal damages, including	grant arriang wheth extract watered unless of the property of the	dher hased in sprittant o ean made in welltrig and o calmass interruptions, in	ng almather beend in contract of tork, what the lambed to the annount paid and unless made in writing and received by Candonia within 100 days after seon, business treamptions, loss of use, or loss of profits incursed by cit	the amount paid by the ren 30 days after stamps to routing by offers, its	paid by the client for the after sampletion of the appli by client, its subsidiaries.	1											
Relinquished By	and of an existing to the performan	Date: 3/7/25	Received B	College C	Colles Christalias		Verbal Result: Tyes TNo [Add't Phone #: All Results are emailed. Please provide Email address:  BBeilli@ensolum.com TMorrissey@ensolum.com,	OYes emailed. um.com	d Pice	ase pro	Add'	□No Add'i Phone #: ease provide Email addret TMorrissey@ensolum.com,	dress:		hard@k	Thillard@ensolum.com kthomason@ensolum.com	m.com	3	
Retinquished By		Date:3/7/25	Received By:	N N N		- 22	REMARKS: Cost Center: 1140201001 Incident ID: NAPP2418043567, nAPP2432147637, NAPP2432531235, NAPP2502042071	Cost C	Cost Center: 1140201001 (PP2418043567, nAPP24)	114020 57, nAs	1001 P2433	14763	7. NAP	P24326	531235	NAP	P25020	42071	
Delivered By: (Circle One)	ILLO CATA 13 (ATM	1 000	3	Sample Condition	ON CHECKED BY:	d= 4	urmaround Time:	THE STATE OF	Standard Bacteria ( Rush Cool Inta	dard	300	D C B	Bacteria (or Cool Intact	S (vin	Observ	Bacteria (only) Sample Condition Cool Intact Observed Temp. "C s Yes	mp. °C	32	
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FORM 006 R 1/2 1/3/02/21

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	575) 393-2326 F	(575) 393-2326 FAX (575) 393-2476		TESTINGE SIGNAMA	
Company Name:	Ensolum, LLC		BILL TO	ANALTOIS REGOEST	1
Project Manager: Tracy Hillard	racy Hillard		P.O. #:		
Address: 3122 National Parks Hwy	tional Parks Hv	Ŋ	company: XTO Energy Inc.	/ Inc.	
city: Carlsbad		State: NM Zip: 88220	Attn: Colton Brown		
#	575-937-3906		Address: 3104 E. Green St.	an St.	
	03C1558453 & 03C1558587	587 Project Owner: XTO	city: Carlsbad		
ame:	Big Eddy Unit 248 H & 249H	48 H & 249H	State: NM Zip: 88220		
ň	32.62085,-103.83132	3132	Phone #:		
Sampler Name: Jesse Dorman	sse Dorman		Fax #:		_
ATMO BBIT BIT BOX		9. MATRIX	PRESERV. SAMPLING		
Lab I.D.	Sample I.D.	(feet) (F	LUDGE OTHER: CID/BASE: CE / COOL OTHER:	BTEX TPH CHLORIDE	
de la company	512	- X	7	1327	
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PLEASE NOTE: Lastly and Da analysis. All district including the	AME NOTE: Lucidy and Damages. Cordeni's liability and open. All claims including linear for negligenou and any off- tions aware small European to Stable for incidental or cor-	clents exclusive winedy for any claim are no cause whatbooker shall be deemed wit mecouversy damages, including without limit	amount ayes on a	paid by the client for the flux conquetion of the applicable y client, the subsidiaries.	
Relinquished By:	nd By:	Date: 51/25 Received By:	Christalles	. Please provide Email address:	
Sur		11.31	Own ACHAO	REMARKS:	
Relinquished By: MISMON	christma	Date: 3/7/2 Received by:		Cost Center: 1140201001 : NAPP2418043567, nAPP24321	175
Delivered By: (Circle One)	cle One)	35.	ondition CHECKED BY: (Initials)	Turnsround Time: Standard Bacteria (only) Sample Condition  Rush Cool Infact Observed Temp. 'C	_
Sampler - or a - our - ourer.	do - Onites.	200 No.	No	Carrent From No (400)	

F08M-006-R 3-2-10/09/21



May 01, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/25/25 12:52.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Wite South

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 04/25/2025 Reported: 05/01/2025

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/25/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 45 6' (H252510-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2025	ND	2.19	110	2.00	1.00	
Toluene*	<0.050	0.050	04/29/2025	ND	2.17	108	2.00	0.494	
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.11	106	2.00	0.679	
Total Xylenes*	<0.150	0.150	04/29/2025	ND	6.19	103	6.00	0.716	
Total BTEX	<0.300	0.300	04/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	ND	200	99.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/28/2025	ND	202	101	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	04/28/2025	ND					
Surrogate: 1-Chlorooctane	103	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	106	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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04/25/2025

Soil

### Analytical Results For:

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

Received: 04/25/2025 Sampling Date: Reported: 05/01/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Tamara Oldaker

Project Location: XTO-EDDY CO., NM

### Sample ID: FS 55 7.5' (H252510-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2025	ND	2.19	110	2.00	1.00	
Toluene*	< 0.050	0.050	04/29/2025	ND	2.17	108	2.00	0.494	
Ethylbenzene*	< 0.050	0.050	04/29/2025	ND	2.11	106	2.00	0.679	
Total Xylenes*	<0.150	0.150	04/29/2025	ND	6.19	103	6.00	0.716	
Total BTEX	<0.300	0.300	04/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	ND	200	99.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/28/2025	ND	202	101	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	04/28/2025	ND					
Surrogate: 1-Chlorooctane	105 %	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	108 9	40.6-15	3						

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### Analytical Results For:

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

Received: 04/25/2025 Reported: 05/01/2025

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/25/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 59 4-7.5' (H252510-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2025	ND	2.19	110	2.00	1.00	
Toluene*	<0.050	0.050	04/29/2025	ND	2.17	108	2.00	0.494	
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.11	106	2.00	0.679	
Total Xylenes*	<0.150	0.150	04/29/2025	ND	6.19	103	6.00	0.716	
Total BTEX	<0.300	0.300	04/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	ND	200	99.9	200	4.14	
DRO >C10-C28*	92.3	10.0	04/28/2025	ND	202	101	200	4.24	
EXT DRO >C28-C36	10.4	10.0	04/28/2025	ND					
Surrogate: 1-Chlorooctane	98.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105	% 40.6-15	3						

Applyzod By: 14

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### Analytical Results For:

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

Received: 04/25/2025 Reported: 05/01/2025

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/25/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 60 4-7.5' (H252510-04)

BTEX 8021B

DIEX 8021B	ilig/	kg	Allalyze	u by. Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2025	ND	2.19	110	2.00	1.00	
Toluene*	<0.050	0.050	04/29/2025	ND	2.17	108	2.00	0.494	
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.11	106	2.00	0.679	
Total Xylenes*	<0.150	0.150	04/29/2025	ND	6.19	103	6.00	0.716	
Total BTEX	<0.300	0.300	04/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	ND	200	99.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/28/2025	ND	202	101	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	04/28/2025	ND					
Surrogate: 1-Chlorooctane	93.9	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	96.8	% 40.6-15.	3						

Analyzed By: JH

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### Analytical Results For:

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

Received: 04/25/2025 Reported: 05/01/2025

Project Name: BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/25/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 61 4-7.5' (H252510-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2025	ND	2.19	110	2.00	1.00	
Toluene*	<0.050	0.050	04/29/2025	ND	2.17	108	2.00	0.494	
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.11	106	2.00	0.679	
Total Xylenes*	<0.150	0.150	04/29/2025	ND	6.19	103	6.00	0.716	
Total BTEX	<0.300	0.300	04/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	ND	200	99.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/28/2025	ND	202	101	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	04/28/2025	ND					
Surrogate: 1-Chlorooctane	99.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	102 9	40.6-15	3						

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## Analytical Results For:

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

Received: 04/25/2025 Reported: 05/01/2025

BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/25/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: SW 23 0-7' (H252510-06)

Project Name:

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2025	ND	2.19	110	2.00	1.00	
Toluene*	<0.050	0.050	04/29/2025	ND	2.17	108	2.00	0.494	
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.11	106	2.00	0.679	
Total Xylenes*	<0.150	0.150	04/29/2025	ND	6.19	103	6.00	0.716	
Total BTEX	<0.300	0.300	04/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/28/2025	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	04/28/2025	ND	200	99.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/28/2025	ND	202	101	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	04/28/2025	ND					
Surrogate: 1-Chlorooctane	88.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.7	% 40.6-15	3						

Applyzod By: 14

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



## **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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 8 of 9

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Compary Name: Chsolum ILIC	TIC	BILL TO	ANALYSIS	SIS REQUEST
Project Manager: Tracy Hillard	illard	P.O. #:		
Address: 601 N Marjenfeld St	eld st stc 400	Company:		
city: Midland	State: 7 Zip: 7970	Attn:		
Phone #: 575-937-3906		Address:	0	
Project #: 03CISS 8453	Project Owner:	City:	50	
Project Name: Big Eddy	Unit 248H4 249H	State: Zip:	15	
Project Location: Eddy (	Atuco	Phone #:	L	
Sampler Name: Tabithua	Guadian	Fax#:		
FOR LAB USE ONLY		PRESERV. SAM	SAMPLING	•
Lab I.D. Sam	G)RAB OR (C)O CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH Chlor	
0 15	 × *	× ×	1036 × × × ×	
	4-7-5"C1 X	××	1040 X X X	
5 756	4-7.5 (	×	X X X hhol	
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		2/52/14		TANG
PLIASE NOTE: Liability and Dynagen. Caudrath's liability and amayeas, All station including those for ourgligance and any of	client's exclusive remark for any claim amin's whether based for cause whetherent that he descript saked unless made in	is someof or fort, shall be landed to the amount po writing and received by Carolinal within 10 days at	paid by the client for the that comparison of the applicable	
Relinquished By:	Date: Received By:	Mark have the store that	Verbal Result: D Yes D No. Add'l Phone #: All Results are emailed. Please provide Email address:  L hillord & LnSolum. (OV)	fress:
Relinquished By:	Date: Received By:		CC: 1140201001 CAFCH! 418605000	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4,4 Sample Condition Corrected Temp. °C 4,7 Cool Miacu Corrected Temp. °C 4,7	Sition CHECKED BY:	und Time: Standard - Rush   Communication   Co	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C



March 14, 2025

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 03/13/25 13:05.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

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

Received: 03/13/2025 Sampling Date: 03/11/2025 Reported: 03/14/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 08 3' (H251493-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2025	ND	2.26	113	2.00	4.63	
Toluene*	<0.050	0.050	03/13/2025	ND	2.24	112	2.00	4.27	
Ethylbenzene*	<0.050	0.050	03/13/2025	ND	2.14	107	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/13/2025	ND	6.28	105	6.00	4.55	
Total BTEX	<0.300	0.300	03/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/14/2025	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	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/13/2025	ND					
Surrogate: 1-Chlorooctane	85.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.8	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## Analytical Results For:

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

Received: 03/13/2025 Reported: 03/14/2025

Project Name: BIG EDDY UNIT 248H & 249H Project Number: 03C1558453 & 03C1558577

Project Location: XTO 32.62085-103.83132 Sampling Date: 03/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

## Sample ID: FS 13 3' (H251493-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2025	ND	2.26	113	2.00	4.63	
Toluene*	<0.050	0.050	03/13/2025	ND	2.24	112	2.00	4.27	
Ethylbenzene*	<0.050	0.050	03/13/2025	ND	2.14	107	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/13/2025	ND	6.28	105	6.00	4.55	
Total BTEX	<0.300	0.300	03/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/14/2025	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	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/13/2025	ND					
Surrogate: 1-Chlorooctane	96.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	100 9	40.6-15	3						

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Celey D. Keene



## Analytical Results For:

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

Received: 03/13/2025 Sampling Date: 03/11/2025

Reported: 03/14/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 & 03C1558577 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 28 3' (H251493-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2025	ND	2.26	113	2.00	4.63	
Toluene*	<0.050	0.050	03/13/2025	ND	2.24	112	2.00	4.27	
Ethylbenzene*	<0.050	0.050	03/13/2025	ND	2.14	107	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/13/2025	ND	6.28	105	6.00	4.55	
Total BTEX	<0.300	0.300	03/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/14/2025	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	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/13/2025	ND					
Surrogate: 1-Chlorooctane	97.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105	% 40.6-15	3						

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Celeg D. Keene



03/11/2025

Cool & Intact

Shalyn Rodriguez

Soil

## Analytical Results For:

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

Received: 03/13/2025 Reported:

03/14/2025 Sampling Type: BIG EDDY UNIT 248H & 249H Sampling Condition:

Sampling Date:

Sample Received By:

Project Number: 03C1558453 & 03C1558577 Project Location: XTO 32.62085-103.83132

## Sample ID: FS 33 2' (H251493-04)

Project Name:

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2025	ND	2.26	113	2.00	4.63	
Toluene*	<0.050	0.050	03/13/2025	ND	2.24	112	2.00	4.27	
Ethylbenzene*	<0.050	0.050	03/13/2025	ND	2.14	107	2.00	4.61	
Total Xylenes*	< 0.150	0.150	03/13/2025	ND	6.28	105	6.00	4.55	
Total BTEX	<0.300	0.300	03/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/14/2025	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	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/13/2025	ND					
Surrogate: 1-Chlorooctane	100 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	103 9	6 40.6-15	3						

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Celey D. Keene



## Analytical Results For:

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

Received: 03/13/2025 Sampling Date: 03/11/2025

Reported: 03/14/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 & 03C1558577 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

## Sample ID: FS 34 2' (H251493-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2025	ND	2.26	113	2.00	4.63	
Toluene*	<0.050	0.050	03/13/2025	ND	2.24	112	2.00	4.27	
Ethylbenzene*	<0.050	0.050	03/13/2025	ND	2.14	107	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/13/2025	ND	6.28	105	6.00	4.55	
Total BTEX	<0.300	0.300	03/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/14/2025	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	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/13/2025	ND					
Surrogate: 1-Chlorooctane	99.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	103 9	% 40.6-15	3						

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Celey D. Keene



## **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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Celey D. Keine

# 101 East Marland, Hobbs, NM 88240

Relinquished By Relinquished By: Sampler - UPS - Bus - Other analyses. At claims archading those for bennice in no event shall Caudinal be to Delivered By: (Circle One) PLEASE NOTE: Liabbly and Sampler Name: Jesse Dorman Project Location: 32.62085,-103.83132 Phone #: Project Manager: Tracy Hillard Address: 3122 National Parks Hwy Lab I.D. Company Name: 575-937-3906 03C1558453 & 03C1558577 Big Eddy Unit 248 H & 249H Sample I.D. (575) 393-2326 FAX (575) 393-2476 Ensolum, LLC 0 31.03. des ..... Time: Date: Sample Depth Fax #: Bas State: NM Project Owner: (feet) 0 Received By: Received By: (G)RAB OR (C)OMP Zip: 88220 CONTAINERS XTO GROUNDWATER Sample Condition WASTEWATER made in writing and received by Cardinal within 30 days after MATRIX OIL SLUDGE OTHER Fax #: State: NM Phone #: city: Carlsbad Address: 3104 E. Green St P.O. # Attn: Colton Brown Company: XTO Energy Inc. ACID/BASE PRESERV CHECKED BY: ICE / COOL OTHER BILL TO Zip: 88220 DATE red by clear, its sub-SAMPLING #130 to 3 All Results are emailed. Please provide Email address: REMARKS: BBelili@ensolum.com Incident ID: NAPP241804358P, nAPP2432N 338 818 226 on of the up BTEX Cost Center: 1140201001 Yes TPH Standard TMorrissey@ensolum.com, Ø CHLORIDE ONO Add'l Phone #: ANALYSIS Bacteria (only) Sample Condition 7637, NAPP2432531235, NAPP2502042071 REQUEST kthomason@ensolum.com Thillard@ensolum.com Observed Temp, "C

Corrected Temp. "C

FORM-006 R 3 2 (007/2)

From: <u>Tacoma Morrissey</u>
To: <u>Wells, Shelly, EMNRD</u>

**Subject:** [EXTERNAL] Re: BIG EDDY UNIT 248H Questions

**Date:** Monday, May 19, 2025 9:24:43 PM

Attachments: Outlook-x4a1ngup.png

Outlook-srae3svz.png Outlook-z1t5mkk4.png Outlook-kxygfmh5

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi Shelly,

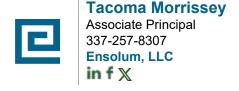
I appreciate you reaching out about these questions. The photos all include coordinates and a brief description, though in the future we will provide additional detail. Perhaps there is an issue during upload that makes the photos unclear?

Attached are photos showing the area of FS59 through FS61. Due to the sloping of the excavation, the sidewall samples were collected from the surface to 4 feet along the slope and the floor samples were collected from 4 feet to the bottom of the excavation, approximately 7.5 feet bgs.

Regarding sample FS34, we had two different field staff respond to the Site and collect confirmation soil samples between 3/11 and 3/13. There was a miscommunication on what samples were collected on 3/11, leading to an additional sample in the same location and name collected on 3/13/2025. Field screenings indicated there were likely no contaminants of concern, so the sample was submitted to the lab on the same COC as several other confirmation soil samples. When laboratory analytical results returned the floor sample was failing. As such a third sample was collected following a 1 in scrape of the area. The source of the contamination noted in the 3/13/2025 sample was not seen in subsequent sampling. No staining, odor, or other indications of contamination were noted in the vicinity of FS34 and field screening readings for all three samples collected for FS34 did not indicate any impacted soil. Because the soil samples for FS34 were included with others on the COC we reported all the results. Sincerest apologies for the confusion.

Please let me know if you have further questions or if I can provide additional information. Feel free to call to discuss if that is easier, though I will be traveling tomorrow.

Hope you have a good week!



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

**Sent:** Monday, May 19, 2025 10:08 AM

**To:** Tacoma Morrissey <tmorrissey@ensolum.com>

Subject: BIG EDDY UNIT 248H Questions

## \*\*EXTERNAL EMAIL\*\*

Good morning Tacoma,

I am reviewing the closure reports for the four incidents for BIG EDDY UNIT 248H and have questions. As the photos are not easy to see and are uncaptioned, can you please provide photos for me that show the areas where excavation went from 4 ft to 7.5 ft depth (FS 59, FS 60, and FS 61)? Also can you please explain what happened at FS34? It was collected on 3/11/25 and was below reclamation limits, then recollected thereafter and failed and then recollected at the same depth and below reclamation limits. I look forward to hearing what you have to say.

Sincerely,

Shelly

Shelly Wells \* Environmental Specialist-Advanced Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/



APPENDIX C February 4, 2025, Remediation Work Plan



February 4, 2025

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

Re: Remediation Work Plan

Big Eddy Unit 248H and 249H

Incident Numbers: nAPP2418043567, nAPP2432147637, nAPP2432531235, &

nAPP2502042071

API: 30-015-40714 & 30-015-40715

**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 assessment and delineation activities completed to date and propose a plan to address impacted soil identified at the Big Eddy Unit 248H and Big Eddy Unit 249H (Site), where a total of four releases occurred on the same pad. The purpose of the assessment and delineation activities was to assess the lateral and vertical extent of impacted soil resulting from multiple releases of produced water and crude oil at the Site. The following *Work Plan* proposes to excavate impacted soil within the release extent areas.

## SITE DESCRIPTION AND RELEASE BACKGROUND

All releases occurred in Eddy County, New Mexico (32.62087°, -103.83145°), at the Big Eddy Unit 248H and Big Eddy Unit 249H wellhead locations. Release extent areas located west of the wellheads are located in Unit A, Section 35, Township 19 South, Range 31 East, and are associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). Release extent areas located east of the wellheads are located in Unit D, Section 36, Township 19 South, and Range 31 on State Land managed by New Mexico State Land Office (SLO) under Lease ID V0-6323-0003.

## Incident Number: nAPP2418043567

On June 21, 2024, the packing on the wellhead stuffing box failed, resulting in the release of approximately 5 barrels (bbls) of crude oil and 9 bbls of produced water onto the surface of the pad and lightly over-spraying the northwest area of the pad and surrounding pasture following the dominant wind direction that day. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on June 28, 2024. The release was assigned Incident Number nAPP2418043567.

On September 20, 2024, XTO submitted a Remediation Work Plan (September 2024 Work Plan) to the NMOCD describing Site assessment and delineation activities completed. The September 2024 Work Plan proposed the following remediation activities:

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 882200 | ensolum.com

- Excavation of an estimated 1,500 cubic yards of total petroleum hydrocarbon (TPH)- and chloride-impacted soil to be removed;
- The excavation will be backfilled and recontoured to match pre-existing conditions. Reclamation and reseeding of the on-pad area will occur during pad abandonment; and
- The area of investigation will continue to be monitored, and photo documentation of the vegetation will be included in the final *Closure Report*.

On November 6, 2024, NMOCD approved the September 2024 Work Plan with the following conditions:

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 from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge 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 release area will need confirmation floor/sidewall samples representing no more than 200 ft2. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Confirmation samples will need to be conducted at surface and at 0.5 feet in the "Area of Investigation" to ensure that contaminants didn't get carried/deposited in this area. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule.

On January 16, 2025, and after Site discussions with the NMOCD, XTO requested a sampling variance for the "area of investigation" confirmation floor soil sample size to be 1,000 square feet. The NMOCD approved the sampling variance the same day.

## Incident Numbers: nAPP2432147637, nAPP2432531235, and nAPP2502042071

On November 16, 2024, the packing on the stuffing box of the Big Eddy Unit 249H well failed, resulting in the release of approximately 10 bbls of crude oil onto the surface of the well pad. No fluids were recovered. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 16, 2024. The release was assigned Incident Number nAPP2432147637.

On November 19, 2024, an equipment failure at the Big Eddy Unit 248H wellhead resulted in the release of approximately 22 bbls of crude oil and 1 bbls of produced water onto the surface of the well pad. Four bbls of fluids were recovered. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 20, 2024. The release was assigned Incident Number nAPP2432531235.

On January 17, 2025, an equipment failure at the Big Eddy Unit 249H wellhead resulted in the release of approximately 33 bbls of crude oil and 29 bbls of produced water onto the surface of the pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 35 bbls of fluids were recovered. Furthermore, approximately 73 thousand cubic feet (Mcf) of natural gas were vented during the release. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 20, 2024. The release was assigned Incident Number nAPP2502042071.

## 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.



Based on the results of the Site Characterization, presented in the approved *September 2024 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

Total petroleum hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

## NMSLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

## **Cultural Properties Protection**

Since the release occurred on the well pad in the area governed by SLO, the Site is exempt from the Cultural Properties Protection Rule (CPP). As such, no additional cultural resource surveys were completed in connection with these releases.

## **Biological Review**

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no critical wildlife habitats at the Site. A review of the Bureau of Land Management (BLM) New Mexico Plant Wildlife Habitat maps indicated potential habitats for Dunes Sage Brush Lizard and Lesser Prairie Chicken near the Site. Threatened and endangered species are potentially present in the area surrounding the Site; however, no native vegetation outside of the well pad extent will be disturbed during remediation activities.
  - From March 1<sup>st</sup> through June 15<sup>th</sup>, no remediation activities will occur between the hours of 3:00 am to 9:00 am to protect any Lesser Prairie Chickens within the area.
- No sensitive receptors were identified near the Site as determined by the Site Characterization.
   The strictest Table I Closure Criteria is being applied to the Site due to a lack of recent depth to groundwater within 0.5 miles.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type
  at the Site as Wink loamy fine sand. The Wink loamy fine sand is not considered a sensitive soil
  per the SLO guidelines. The release occurred on the caliche surface of the well pad limiting
  contact with potentially sensitive native soil.

## SITE ASSESSMENT ACTIVITIES

On November 20, 2024 and January 17, 2025, Ensolum personnel conducted Site assessment activities to evaluate the three additional releases based on information provided on the C-141 and visual observations. Ensolum personnel mapped the four releases utilizing a handheld Global Positioning System (GPS) unit. It was confirmed that the November 2024 and January 2025 releases overlapped the proposed area of excavation presented in the September 2024 Work Plan, but did not overlap the area of investigation. All release extent areas are depicted on Figure 1. Both November 2024 release extents covered the same area and are presented on Figure 1 as a single release extent.



## ADDITIONAL DELINEATION SOIL SAMPLING ACTIVITIES

On January 31, 2025, Ensolum conducted delineation activities. Five potholes (PH01 through PH05) were advanced within the release extent via backhoe to a maximum depth of 9 feet below ground surface (bgs). Discrete soil samples were collected from each delineation pothole at depths ranging from 0.5 feet to 9 feet bgs. Due to open excavations from ongoing remediation activities conducted for Incident Number nAPP2418043567, delineation pothole PH01 was advanced in the open excavation where discrete soil sampling started at 5 feet bgs and delineation pothole PH04 began at 1-foot bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix A. Delineation pothole locations are depicted on Figure 1. Photographic documentation was completed during all Site visits and is presented on a Photographic Log included in Appendix B.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following consituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples collected in PH01, collected on January 31, 2025, indicated all COCs were in compliance with Closure Criteria. Laboratory analytical results for soil sample PH02, collected at 1-foot bgs on January 31, 2025, contained elevated TPH concentrations that were within range of the concentrations detected from a sample collected from the same location in 2024. Laboratory analytical results for pothole PH03 indicated chloride concentrations exceeded Closure Criteria at 1-foot bgs but were in compliance with Closure Criteria at 4 feet bgs, successfully defining the vertical extent of that release area. Delineation soil sample PH04, collected at 4 feet bgs, indicated TPH and chloride concentrations exceeded Closure Criteria. The soil sample collected from PH05 at 1-foot bgs contained elevated BTEX, TPH, and chloride concentrations. The sample collected one foot deeper (PH05 at 2 feet bgs) did not exceed Closure Criteria for VOCs, but remained elevated for chloride. All other delineation soil samples collected on January 31, 2025, indicated COC concentrations were in compliance with Closure Criteria. All laboratory analytical results are summarized on Table 1. This includes all soil samples collected before January 31, 2025, which are presented in the September 2024 Work Plan included in Appendix C. All laboratory analytical reports are included in Appendix D.

## PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicated soil containing elevated BTEX, TPH, and chloride concentrations exists across an approximate 34,375 square foot area in the release extents on pad and extends to depths ranging from 0.5 feet to 4 feet bgs. As such, XTO proposes to complete the following remediation activities:

 Excavation of impacted soil will proceed vertically and laterally until confirmation floor and sidewall soil samples confirm all COC concentrations are compliant with the Closure Criteria.
 The proposed excavation extent is depicted in Figure 2;



- An estimated 3,800 cubic yards of impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal;
- As stated in the approved sampling variance for Incident Number nAPP2418043567, the "area of investigation" will be composite sampled in a 1,000 square-foot sampling frequency. The initial proposed excavation for Incident Number nAPP2418043567 will be sampled in a 200 squarefoot sampling frequency. The approved sampling variance email is provided in Appendix E:
- Due to the size of the release extent for the November 2024 and January 2025 releases, XTO requests a variance for the frequency of confirmation soil samples. XTO proposes 5-point composite soil samples to be collected at a sampling frequency of 400 square feet along the excavation floor, outside of the June 21, 2024 release extent area, and a sampling frequency of 200 square feet along all excavation sidewalls. The proposed sampling frequency would reduce the total number of samples from approximately 395 confirmation soil samples (200 square feet) to approximately 339 confirmation soil samples. The soil samples will be handled and submitted for the same COCs described above. The NMOCD approved sampling grid is presented on Figure 2 and the newly proposed sampling grid is presented on Figure 3; and,
- The excavation will be backfilled and recontoured to match pre-existing conditions. Reclamation and reseeding of the on-pad area will occur during pad abandonment.

XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this Work Plan by the NMOCD.

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

ashley L. ager

Principal

Ashley Ager, PG, MS

Sincerely, **Ensolum, LLC** 

Tracy Hillard **Project Engineer** 

Tour Hotal

Ashley McAfee, XTO

New Mexico State Land Office

Kaylan Dirkx, XTO

Bureau of Land Management

## Appendices:

CC:

Figure 1 Delineation Soil Sample Locations

Figure 2 Proposed Excavation Extent - 200 Square Foot Frequency Figure 3 Proposed Excavation Extent - 400 Square Foot Frequency

Table 1 Soil Sample Analytical Results Appendix A Lithologic / Soil Sampling Logs

Appendix B Photographic Log

Remediation Work Plan; dated September 20, 2024 Appendix C



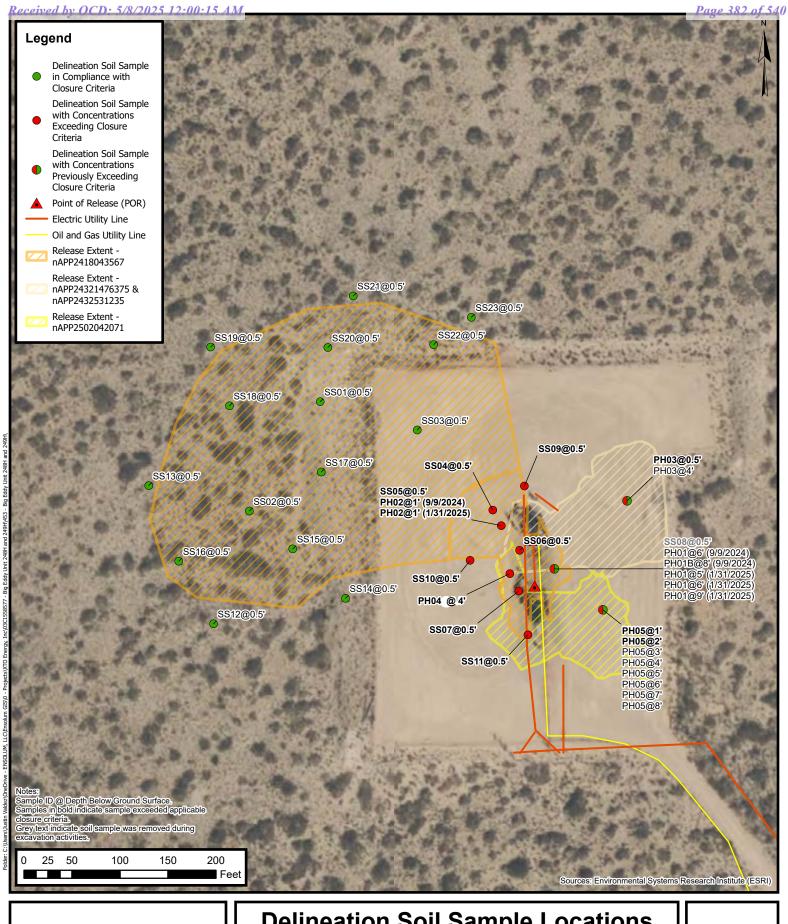
Laboratory Analytical Reports & Chain-of-Custody Documentation NMOCD Correspondence

Appendix E





**FIGURES** 



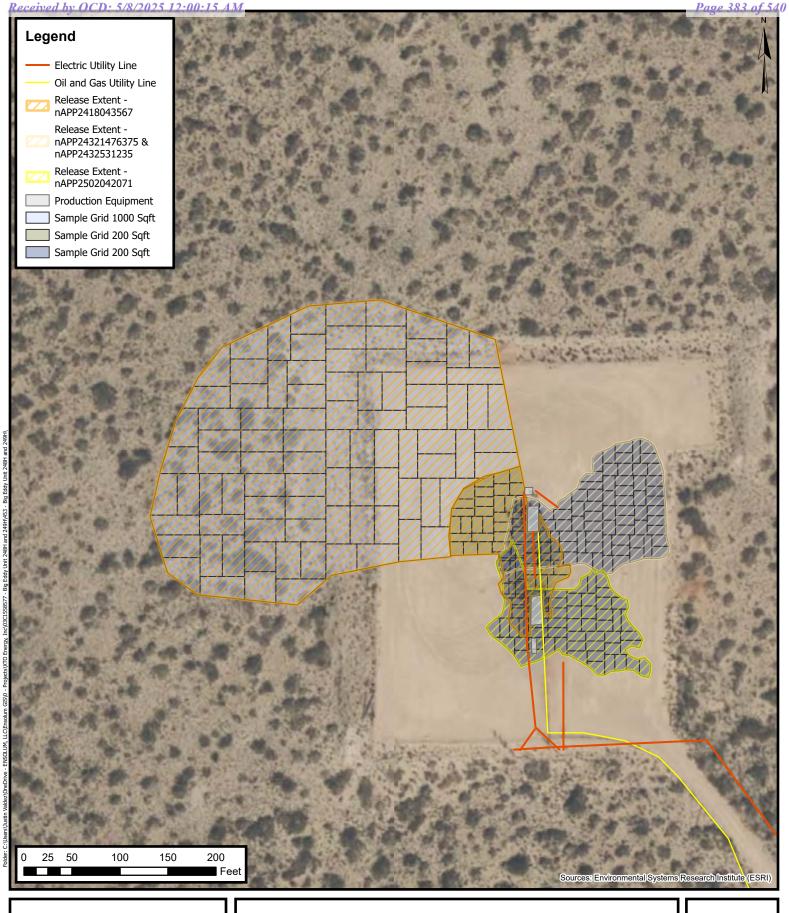


## **Delineation Soil Sample Locations**

XTO Energy, Inc Big Eddy Unit 248H and 249H Incident Numbers: nAPP2418043567, nAPP2432147637, nAPP2432531235, and nAPP2502042071 Unit A, Section 35, T 19S, R 31E Eddy County, New Mexico

**FIGURE** 

Released to Imaging: 5/20/2025 10:31.55 AM

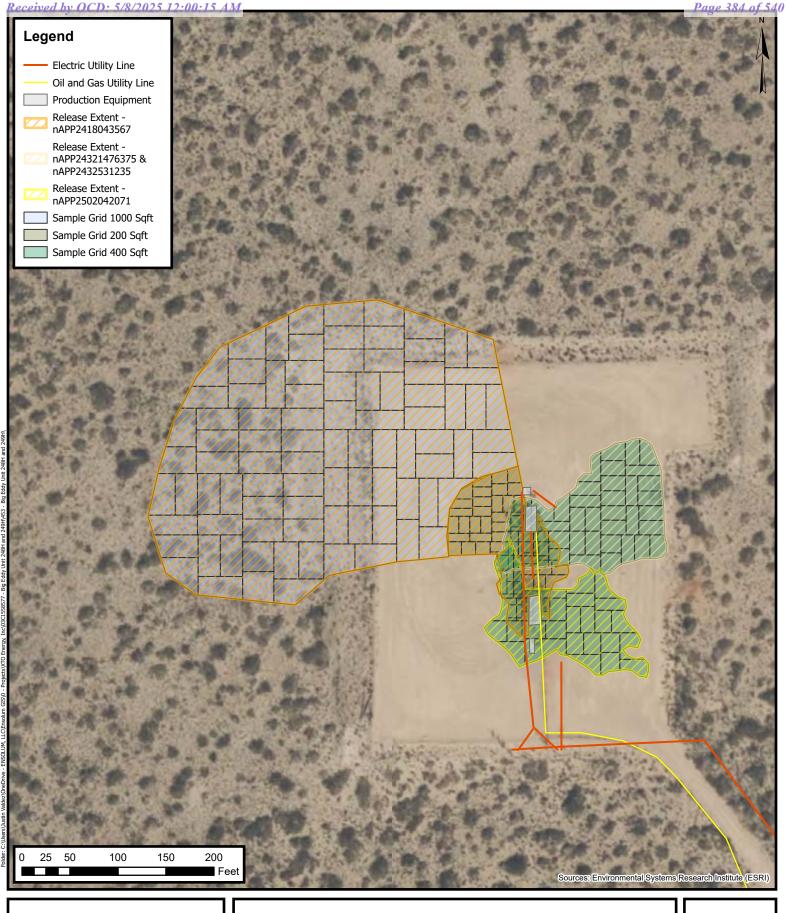




## **Proposed Excavation Extent - 200 square foot frequency**

XTO Energy, Inc
Big Eddy Unit 248H and 249H
Incident Numbers: nAPP2418043567,
nAPP2432147637, nAPP2432531235, and nAPP2502042071
Unit A, Section 35, T 19S, R 31E
Eddy County, New Mexico

FIGURE 2





## **Proposed Excavation Extent - 400 square foot frequency**

XTO Energy, Inc
Big Eddy Unit 248H and 249H
Incident Numbers: nAPP2418043567,
nAPP2432147637, nAPP2432531235, and nAPP2502042071
Unit A, Section 35, T 19S, R 31E
Eddy County, New Mexico

FIGURE 3



**TABLES** 



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Big Eddy Unit 248H and 249H 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 C	losure Criteria (	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delin	neation Soil Sar	nples				
SS01	07/29/2024	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS04	07/29/2024	0.5	<0.050	<0.300	<10.0	182	55.3	182	237	560
SS05	07/29/2024	0.5	<0.050	<0.300	<10.0	1,870	465	1,870	2,335	1,650
PH02	09/09/2024	1	< 0.050	<0.300	<10.0	87.4	13.3	87.4	101	192
PH02	01/31/2025	1	<0.050	<0.300	<10.0	135	54.7	135	190	176
SS06	07/29/2024	0.5	<0.050	5.16	75.7	2,710	613	2,786	3,399	1,250
SS07	07/29/2024	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
<del>SS08</del>	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,600
PH01	09/09/2024	6	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752
PH01B	09/09/2024	8	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH01	01/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
PH01	01/31/2025	6	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
PH01	01/31/2025	9	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS09	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
SS10	07/29/2024	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,570
SS11	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
SS12	07/29/2024	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS13	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS14	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS15	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS16	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS17	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS18	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS19	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Ensolum 1 of 2



## TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Big Eddy Unit 248H and 249H 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 CI	osure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
SS20	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS21	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS22	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS23	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH03	01/31/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,040
PH03	01/31/2025	4	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH04	01/31/2025	4	<0.050	<0.300	<10.0	179	41.8	179	221	1,010
PH05	01/31/2025	1	1.15	53.1	419	1,550	277	1,969	2,246	2,480
PH05	01/31/2025	2	< 0.050	0.474	<10.0	20.7	<10.0	20.7	20.7	640
PH05	01/31/2025	3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH05	01/31/2025	4	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	01/31/2025	5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	01/31/2025	6	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	01/31/2025	7	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH05	01/31/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

## 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

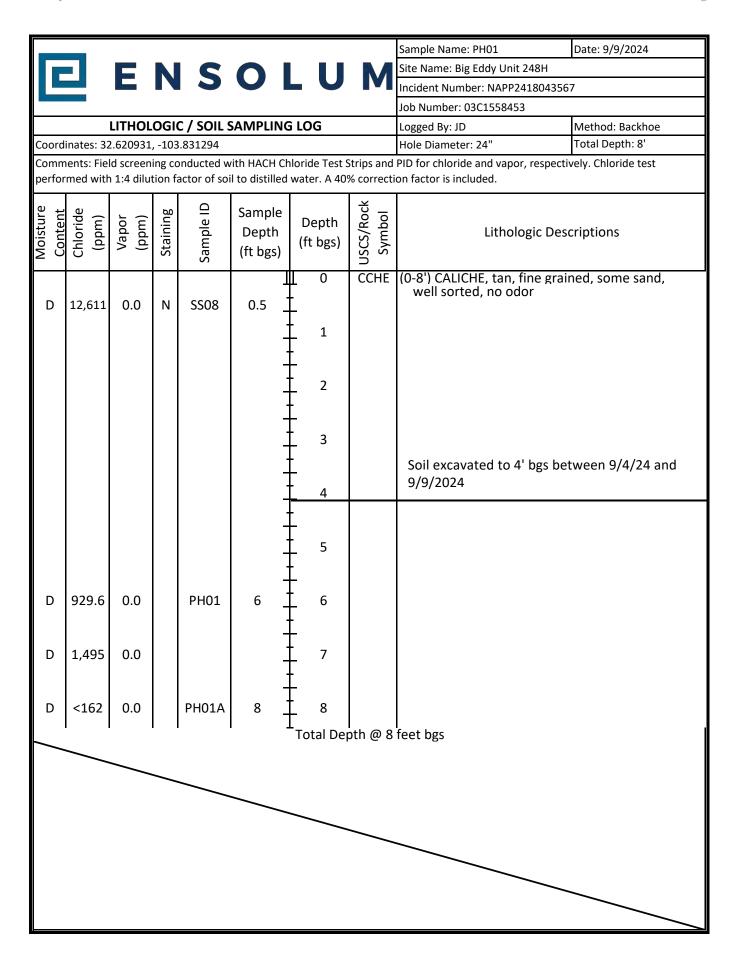
NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

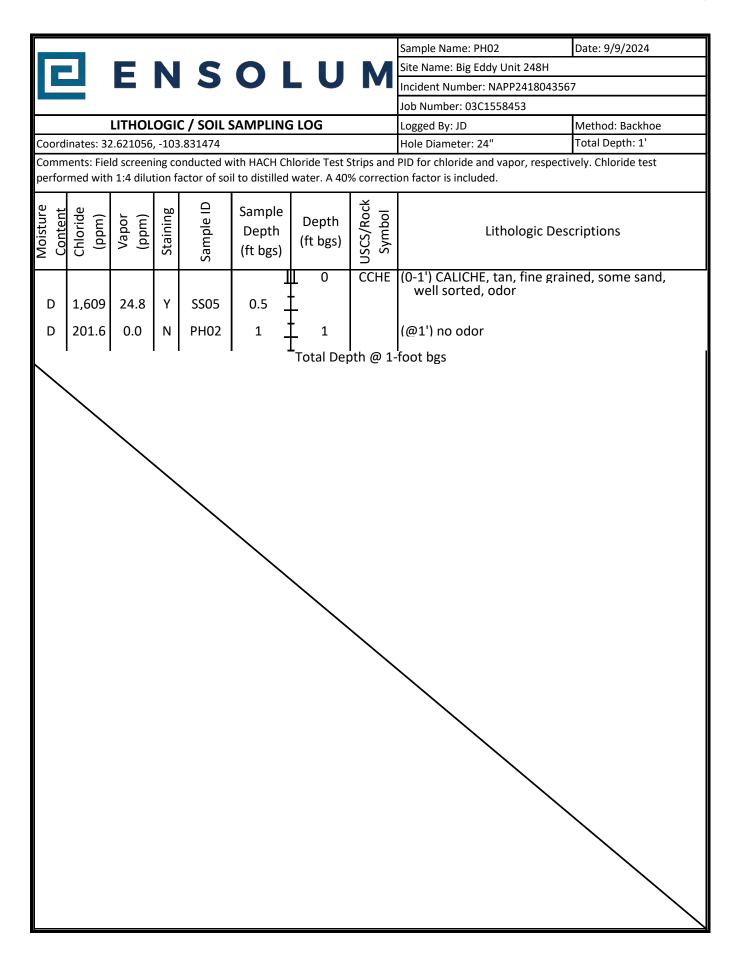


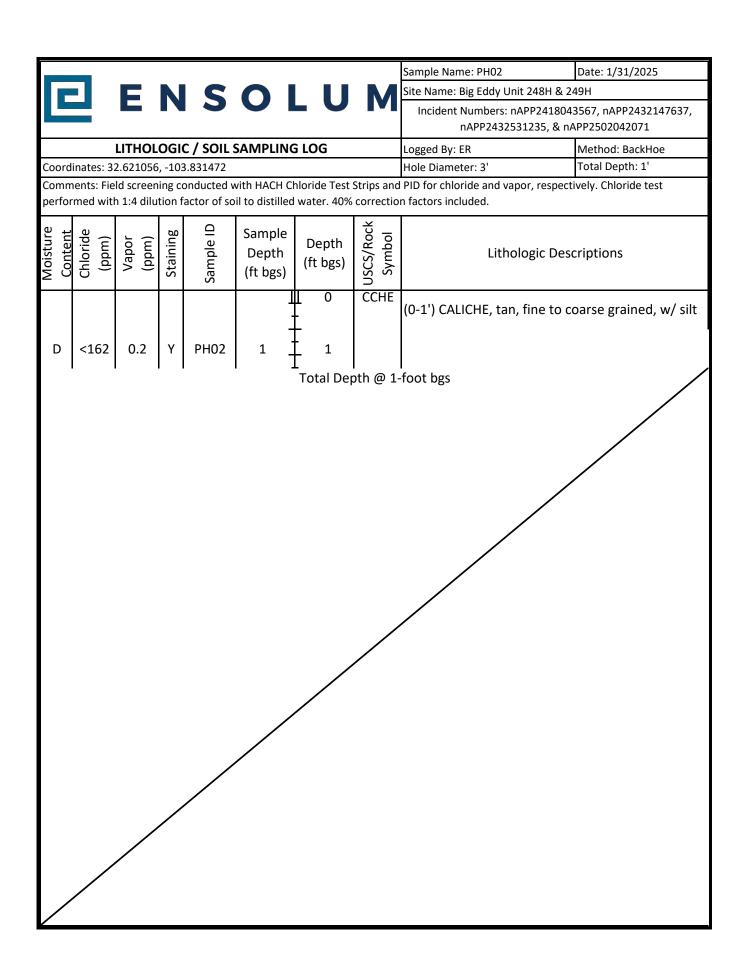
**APPENDIX A** 

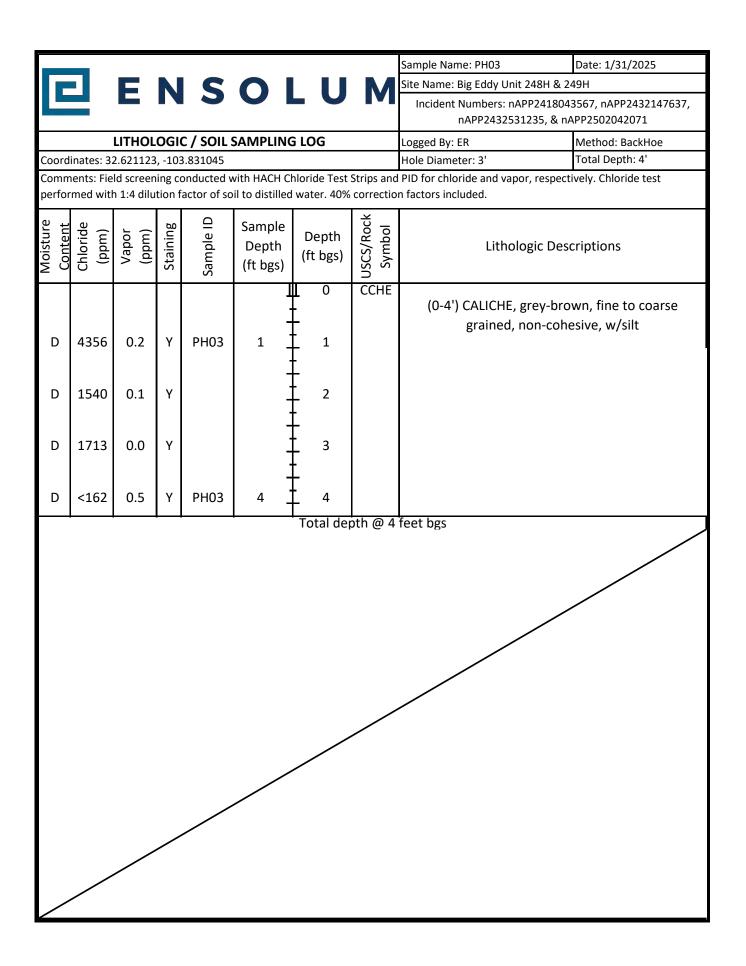
Lithologic Soil Sampling Logs

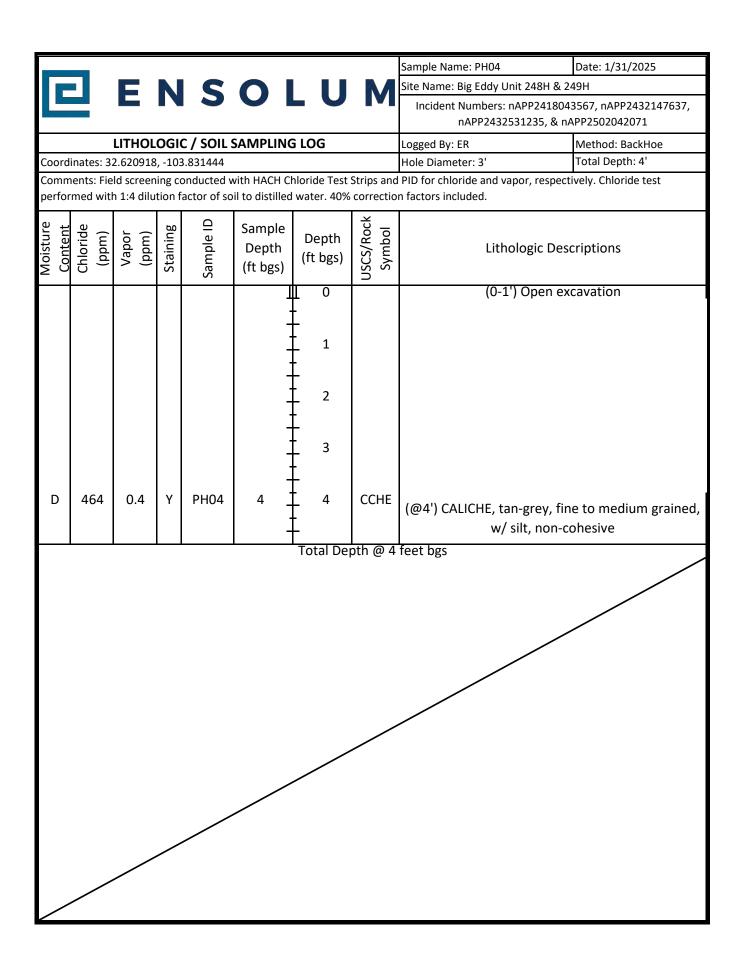


								Sample Name:PH01	Date: 1/31/2025		
	7							· · · · · · · · · · · · · · · · · · ·			
E			N	5	$\mathbf{O}$	LU	M	Site Name: Big Eddy Unit 248H & 2	49F		
	(4)							Incident Numbers: nAPP241804 nAPP2432531235, & n.	55507, HAFF 2452147057,		
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: ER	Method: BackHoe		
Coord	inates: 32	2.620930	, -103	3.831295				Hole Diameter: 3'	Total Depth: 9'		
			_					PID for chloride and vapor, respect n factors included.	ively. Chloride test		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions		
					1	0		(0-5') Open ex	cavation		
D	274	0.4	Y	PH01	5	- 1 - 2 - 3 - 4 - 5	CCHE				
D	2/4	0.4	'	FIIOI	, - -	- <sup>-</sup> -	CCITE	(0-9') CALICHE, tan-gray, coa cohesiv	_		
D	162	0.4	Υ	PH01	6	6					
D	<162	0.7	Υ		-	- - 7					
D	<162	0.6	Υ			- 8 -					
D <162 0.5 Y PH01 9 9 SP-SC (@9') SAND, brown, fine to medium grained sand w/silt											
						Total Dep	oth @ 9				
						. 0 (0)	<u></u>				
					-						









	-							Sample Name: PH05	Date: 1/31/2025
T.			N	S	0 1	L U	M	Site Name: Big Eddy Unit 248	
									.418043567, nAPP2432147637, 5, & nAPP2502042071
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: ER	Method: BackHoe
				3.831131				Hole Diameter: 3'	Total Depth:8'
			-				•	PID for chloride and vapor, r n factors included.	espectively. Chloride test
Moisture Content	Content Content Content Content Content Chloride (bpm) Vapor (bpm) Staining Staining O CCHE (ft bgs) Depth (ft bgs) O CCHE Symbol							Lithologid	c Descriptions
					1		ey, fine to medium grained, non-cohesive		
D   554.6 Y PH05   1									
D		70.2	Υ	PH05	2	2			
D		32.3	Υ	PH05	3 _	- _ 3 -			
D		35.9	Υ	PH05	4 _	4			
D		27.7	Υ	PH05	5 _	- - 5 -			
D	<162	5.8	Υ	PH05	6 _	- - 6			
D		10.7	Υ	PH05	7 -	- - - 7			
D	<162	4.6	Υ	PH05	8 _	- _ 8			
						Total Dep	otn @ 8	reet bgs	
_									



**APPENDIX B** 

Photographic Log



#### **Photographic Log**

XTO Energy, Inc Big Eddy Unit 248H and 249H nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071





Photograph: 1 Date: 11/20/2024

Description: Soil staining - nAPP2432147637, nAPP2432531235

View: North

Photograph: 2 Date: 1/17/2025

Description: Soil staining - nAPP2502042071

View: North





Photograph: 3 Date: 1/31/2025

Description: Delineation activities

View: West

Photograph: 4 Date: 1/31/2025

Description: Delineation activities

View: Northwest



APPENDIX C Remediation Work Plan; dated September 20, 2024



September 19, 2024

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

Re: Remediation Work Plan
Big Eddy Unit 248H
Incident Number NAPP2418043567
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 plan to address impacted soil identified at the Big Eddy Unit 248H (Site). The purpose of the site assessment activities was to assess the lateral and vertical extent of impacted soil resulting from a release of produced water and crude oil at the Site. The following *Work Plan* proposes to excavate impacted soil within the release extent.

#### SITE DESCRIPTION AND RELEASE SUMMARY

The release was initially reported at the incorrect location but following a review of initial release records, internal documents, and personnel communications, it was confirmed the release is located on the Big Eddy Unit 248H well pad. The majority of the release is located in Unit A, Section 35, Township 19 South, Range 31 East, in Eddy County, New Mexico (32.62087°, -103.83145°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). However, a portion of the release occurred on State Land managed by New Mexico State Land Office (SLO) in Unit D, Section 36, Township 19 South, and Range 31 East.

On June 21, 2024, the packing on the stuffing box of the well failed, resulting in the release of approximately 5 barrels (bbls) of crude oil and 9 bbls of produced water onto the surface of the pad and lightly over-spraying the northwest area of the pad and surrounding pasture due the dominant wind direction that day. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on June 28, 2024. The release was assigned Incident Number NAPP2418043567.

#### 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 estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to

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groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-641, located approximately 0.4 miles southeast of the Site. The depth to groundwater in the well, 130 feet bgs, was most recently measured on February 23, 1982. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a lakebed approximately 12,400 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the nearest groundwater data exceeding 25 years in age, and no other data available within 0.5 miles as preferred by the NMOCD, the following Table I Closure Criteria (Closure Criteria) apply:

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

#### **CULTURAL PROPERTIES**

Since the release remained on pad in the area governed by SLO, the Site is exempt from the Cultural Properties Protection (CPP) Rule. As such no additional cultural resource surveys were completed in connection with this release.

#### SITE ASSESSMENT ACTIVITIES

On July 29, 2024, Ensolum personnel conducted a Site assessment to evaluate the release based on information provided on the C-141 and visual observations. Ensolum personnel identified the release extent, approximately 10,700 square feet, based on visual observations of stained soil. Ensolum personnel also identified an approximately 88,300 square-foot area in the northwest corner of the pad and pasture where high winds had carried a *de minimus* volume of fluid spray from the release. This area is considered an area of investigation. Ensolum personnel collected thirteen delineation soil samples (SS01 through SS13) within and around the release extent and area of investigation. The delineation soil samples were collected at a depth of 0.5 feet bgs to determine the presence or absence of impacted soil. The delineation 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, area of investigation, and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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 consituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500. Based on field screenings and laboratory analytical results, additional delineation of the release extent and further assessment of the area of investigation in the northwest corner of the pad and pasture was warranted.



#### **DELINEATION SOIL SAMPLING ACTIVITIES**

On September 9, 2024, Ensolum returned to the Site to remove gross impacts and conduct additional delineation. Saturated soil was removed around the wellhead, but field screening results for VOCs and chloride in excavation soil samples indicated additional excavation was warranted. As such, two potholes (PH01 and PH02) were advanced within the release extent via a backhoe. Pothole PH01 was advanced within the excavation area near SS08 to a depth of 8 feet bgs. Pothole PH02 was advanced to 1-foot bgs and was located in the vicinity of SS05. Discrete delineation soil samples were collected from PH01 at 6 feet and 8 feet bgs and from PH02 at 1-foot bgs. Soil from the potholes was field screened, handled, and analyzed for the same COCs as described above. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix B. Both delineation pothole locations are depicted on Figure 2. Photographic documentation was completed during all Site visits and is presented on a Photographic Log included in Appendix C.

On September 17, 2024, in order to further assess the area of investigation, Ensolum personnel collected ten additional delineation soil samples (SS14 through SS23) at a depth of 0.5 feet bgs within and around the area of investigation. The delineation soil samples were handled and analyzed following the same procedures described above.

Laboratory analytical results for delineation soil samples collected at 0.5 feet bgs within the release extent indicated TPH and chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for the terminal depths of PH01 and PH02 indicated that all COCs were compliant with Closure Criteria and successfully defined the vertical extent of impacted soil. Laboratory analytical results for delineation soil samples collected at 0.5 feet bgs within and around the area of investigation in the northwest corner of the pad and surrounding pasture indicated all COCs were compliant with the Closure Criteria and confirmed the absence of impacted soil in that area. All laboratory analytical results are summarized on Table 1 and laboratory analytical reports are included in Appendix D.

#### **VEGETATION SURVEY ACTIVITIES**

On September 13, 2024, Ensolum personnel conducted a vegetation survey utilizing the line-point intercept (LPI) method to assess for the presence or absence of any biological indications of stress to the vegetation in the area of investigation. A staff biologist completed 1 LPI transect within the area of investigation and 1 LPI transect to the north in an undisturbed area. Each transect was 100 feet in length and mapped utilizing a handheld GPS unit as depicted on Figure 3. The staff biologist noted each time vegetation intersected the transect and recorded the length of the vegetation along the transect. The transects were completed along the same slope and direction. The staff biologist also recorded the observed health of the plant. Some stressed vegetation, that was indicative of heat stress and natural conditions, was noted throughout the area of investigation and surrounding pasture area. No indications of stress from the potential overspray were observed.

The LPI transect completed in an undisturbed area to the north, LPI-1, indicated a vegetation coverage of 27 percent (%). The LPI transect LPI-2 was completed in the area of investigation and indicated vegetation coverage of 26%. These observations suggest there have been no significant impacts to the vegetation in the area of investigation. The vegetation survey was conducted over 2 months after the release date, during which time any impacts would have become clearly visible. In addition, all laboratory analytical results for delineation soil samples collected in the area of investigation confirmed the absence of impacted soil in the area. Photographic documentation of the vegetation survey is presented in a Photographic Log provided in Appendix C.



#### PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated TPH and chloride concentrations exists across an approximate 10,700 square foot area in the release extent on pad and extends to depths ranging from 0.5 feet to 8 feet bgs. As such, XTO proposes to complete the following remediation activities:

- Excavation of TPH and chloride impacted soil has begun and will proceed vertically and laterally
  until sidewall samples confirm all COC concentrations are compliant with the Closure Criteria.
  The proposed excavation extent is depicted in Figure 4.
- An estimated 1,500 cubic yards of impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions. Reclamation and reseeding of the on-pad area will occur during pad abandonment.
- The area of investigation will continue to be monitored, and photo documentation of the vegetation will be included in the final *Closure Report*.

XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD.

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

ashley L. ager

Principal

Ashley Ager, PG, MS

Sincerely, Ensolum, LLC

Tacoma Morrissey, MS Associate Principal

cc: Colton Brown, XTO Kaylan Dirkx, XTO

Mouissey

New Mexico State Land Office Bureau of Land Management

Appendices:

Figure 1 Site Location Map

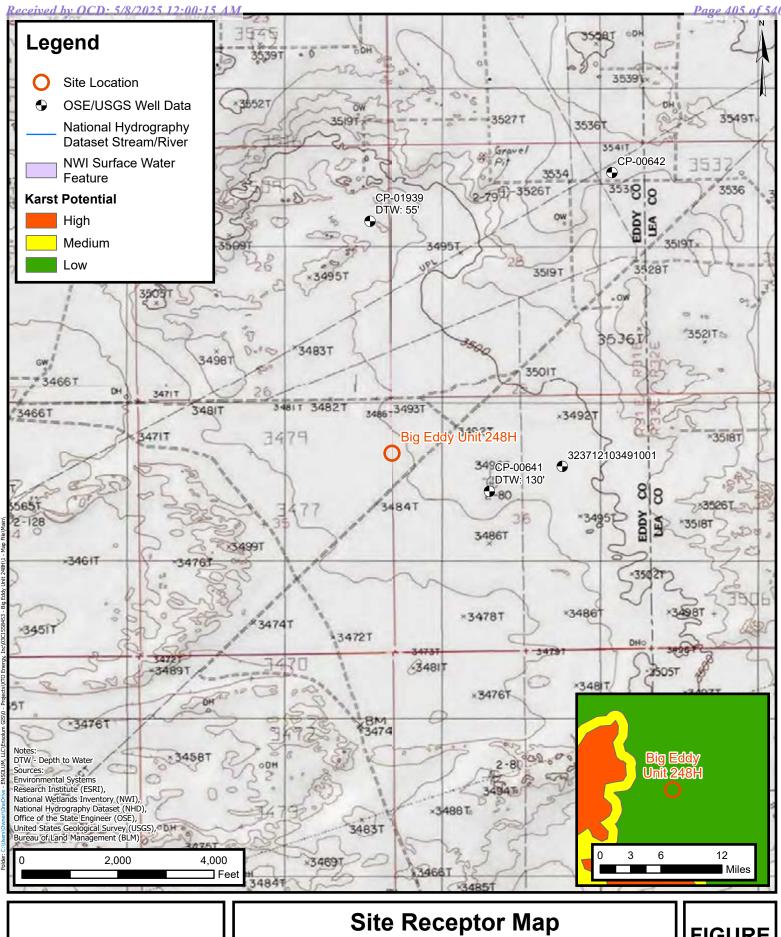
Figure 2 Delineation Soil Sample Locations
Figure 3 Vegetation Survey Transects
Figure 4 Proposed Excavation Extent
Table 1 Soil Sample Analytical Results
Appendix A Appendix B Lithologic / Soil Sampling Logs

Appendix C Photographic Log

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

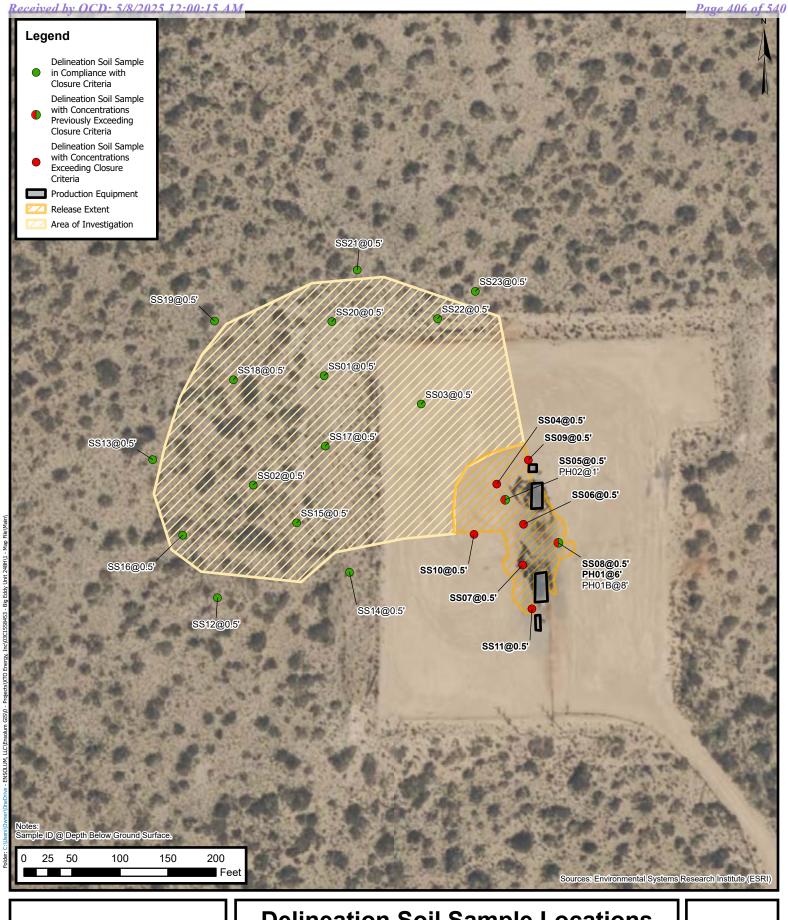








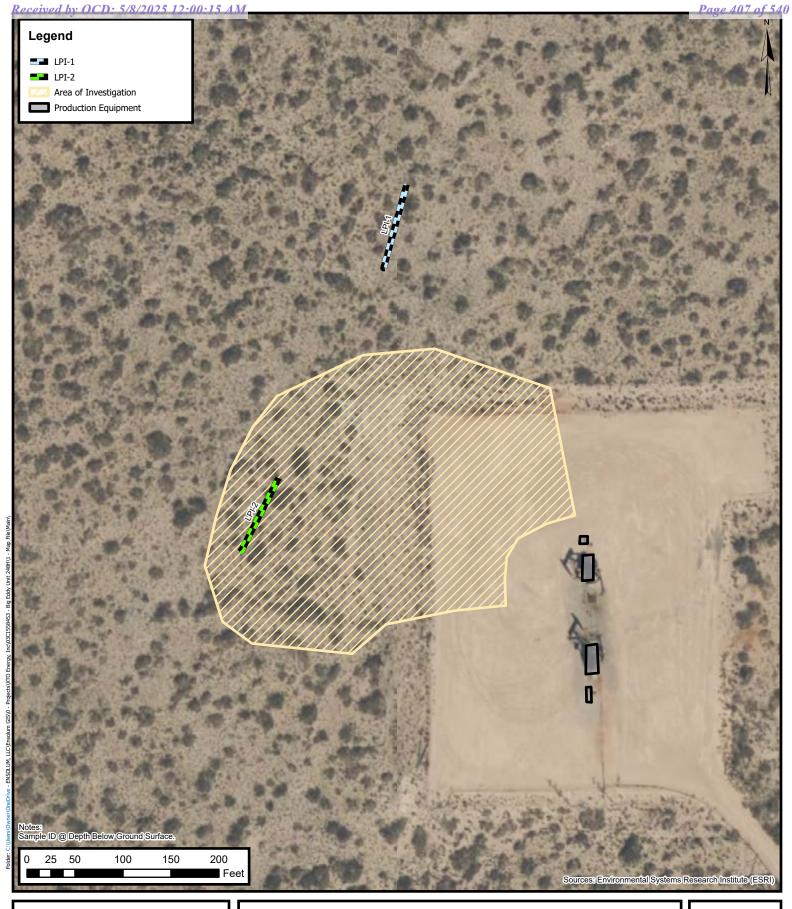
XTO Energy, Inc Big Eddy Unit 248H Incident Number: NAPP2418043567 Unit A, Sec 35, T19S, R31E Eddy County, New Mexico





### **Delineation Soil Sample Locations**

XTO Energy, Inc Big Eddy Unit 248H Incident Number: NAPP2418043567 Unit A, Sec 35, T19S, R31E Eddy County, New Mexico



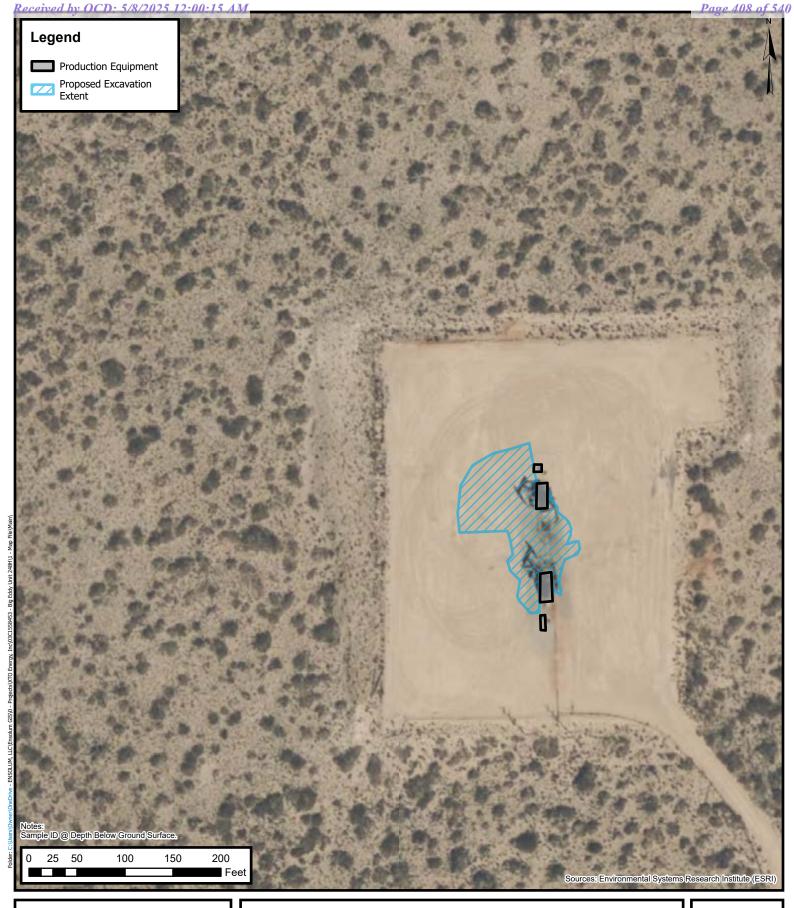


Vegetation Survey Transects

XTO Energy, Inc

Big Eddy Unit 248H

Incident Number: NAPP2418043567 Unit A, Sec 35, T19S, R31E Eddy County, New Mexico





## **Proposed Excavation Extent**

XTO Energy, Inc Big Eddy Unit 248H Incident Number: NAPP2418043567 Unit A, Sec 35, T19S, R31E Eddy County, New Mexico



**TABLES** 



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Big Eddy Unit 248H 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 C	losure Criteria (	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delin	neation Soil Sa	mples				
SS01	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS04	07/29/2024	0.5	<0.050	<0.300	<10.0	182	55.3	182	237	560
SS05	07/29/2024	0.5	<0.050	<0.300	<10.0	1,870	465	1,870	2,335	1,650
PH02	09/09/2024	1	< 0.050	<0.300	<10.0	87.4	13.3	87.4	101	192
SS06	07/29/2024	0.5	<0.050	5.16	75.7	2,710	613	2,786	3,399	1,250
SS07	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
SS08	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,600
PH01	09/09/2024	6	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752
PH01B	09/09/2024	8	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS09	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
SS10	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,570
SS11	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
SS12	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS13	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS14	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS15	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS16	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS17	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS18	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS19	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Ensolum 1 of 2



## TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Big Eddy Unit 248H 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 CI	osure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
SS20	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS21	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS22	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS23	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

#### 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

Ensolum 2 of 2



**APPENDIX A** 

Referenced Well Records







### STATE ENGINEER OFFICE **WELL RECORD**

SANTA FE

Section 1. GENERAL INFORMATION

Street or	Post Office Ada	<u>villips Pe</u> dress	P.O.Box	2730			Own	er's We	ll No. <u>CP-6</u>	41-Expl
City and	State		MUDDA, I	NM BAZQU			si I			
ell was drilled	under Permit l	No. TEST	HOLE FO	R EPA	and	s located	#4 in the: 1600'	FNL	1600' FWL	
a	_ ¼ ¼	<u>se</u> ¼ <u>nw</u>	¼ of S	ection _ <b>36</b>	To	vnship	195 Ra	nge	31E	N.M.P.N
b. Tract	No	_ of Map No.		of	the	<del></del>				<del></del>
c. Lot No Subdiv	oc vision, recorded	of Block No in	E	of <b>ddy</b>	the _ County				· · · · · · · · · · · · · · · · · · ·	
							System			Gran
) Drilling C	ontractor	Larriy's	Drilli	ıg			License No	WD8	82	<u> </u>
Idress		2601 W.	Bender	Hob	oba, NM	88240				
		Comp	leted	?-12-82	Туре	tools	tri-cone	0-22 220 S	0'-7 7/78 iz <b>505</b> hole_	3 4 3 ji
+							_ ft. Total depti		300	f1
ompleted well	lis 🗆 sh	allow . a		<b>t hole</b> NCIPAL WA			upon completio	n of we	ıı <u>130</u>	f
Depth		Thickness in Feet		Description	of Water-	Bearing F	ormation	6	Estimated N	
From	То	III rect			· · · · · ·	····			Banons per n	
					· · · · · · · · · · · · · · · · · · ·					
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			Secti	on 3. RECO	RD OF C	ASING				
Diameter	Pounds	Threads	<del></del>	h in Feet Botton		ength eet)	Type of Sh	oe	Perfor From	ations To
(inches)	per foot	per in.	Тор	BOLLOIL	`					
	per foot	per in,	O	220	5	ne Peru				<u> </u>
(inches)		per m.			5	ora Prasi Prasi				<u> </u>
(inches)			0			ND CEM	ENTING		-	8*1 <u> </u>
(inches)  51/2  Depth	<b>160PVC</b> in Feet	Section	on 4. RECC	220 _	IDDING A	eet		od of l	Placement	\$*1 <u>.</u>
(inches)	160PVC	Section	on 4. RECC	220 _	IDDING A	eet		od of l		\$71
(inches)  51/2  Depth	<b>160PVC</b> in Feet	Section	on 4. RECC	220 _	IDDING A	eet		od of I		\$*11 <u> </u>
(inches)  51/2  Depth	<b>160PVC</b> in Feet	Section	on 4. RECC	220 _	IDDING A	eet		od of I		\$ 11.
(inches)  51/2  Depth	<b>160PVC</b> in Feet	Section Hole Diameter	on 4. RECO	220 _	IDDING A Cubic F of Ceme	eet nt		od of I		\$ 11.
Depth From	in Feet To	Section Hole Diameter	on 4. RECO	DRD OF MUcks	IDDING A Cubic F of Ceme	eet nt	Meth		Placement	
Depth From  ugging Controddress	in Feet To	Section Hole Diameter	on 4. RECO	DRD OF MUcks	IDDING A Cubic F of Ceme	eet nt			Placement	bic Feet Cement
Depth From  ugging Contraddress ugging Metho ate Well Plugs	in Feet To actor	Section Hole Diameter	on 4. RECO	DRD OF MUcks	IDDING A Cubic F of Ceme	CORD No.	Meth	ı Feet	Placement	
Depth From  ugging Controddress	in Feet To actor	Section Hole Diameter	on 4. RECO	DRD OF MUcks Mud	IDDING A Cubic F of Ceme	CORD No.	Meth	ı Feet	Placement	

\_\_\_\_\_ Use \_

19.31.36.14114 \_\_ Location No.\_

	OCD: 5/8/2025		Section 6. LOG OF HOLE	Page 414
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered	
0	10	gradie en	topsoil	
1	2		callche	
2	18	16	white sand	
18	40	22	brown sand	
40	100	60	brown sand 8 gravel	
100	182	82	brown sand gravel	
182	200	18	brown clay gravel	
200	292	92	brown clay	
292	300	8	red bed	
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			: '	·

Section 7. REMARKS AND ADDITIONAL INFORMATION

S ROSWELL RELEASE

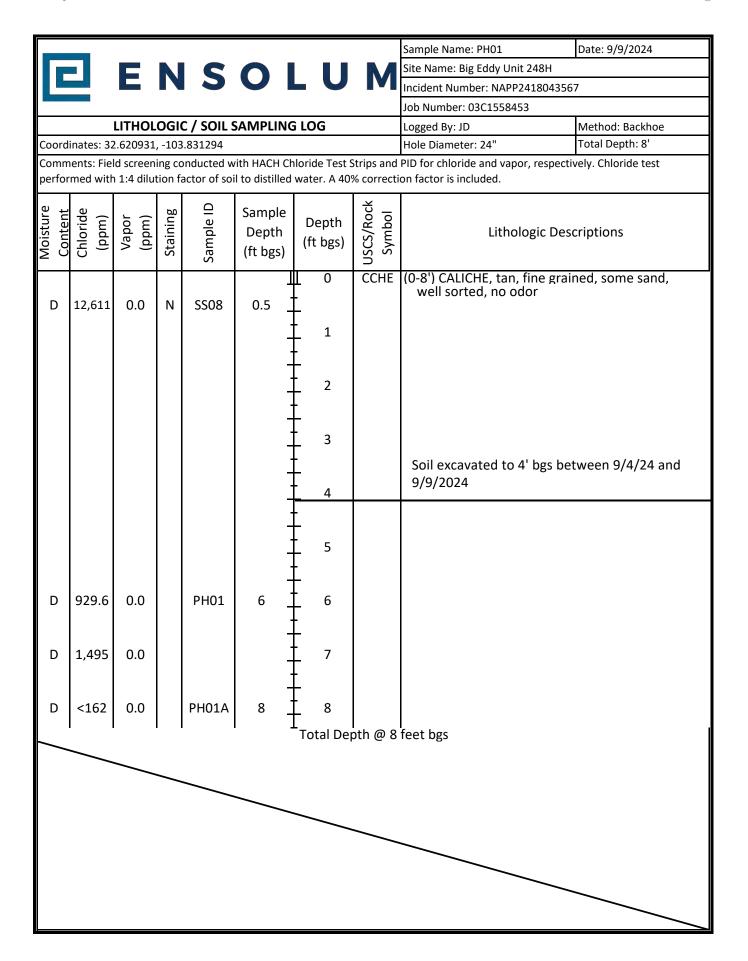
The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

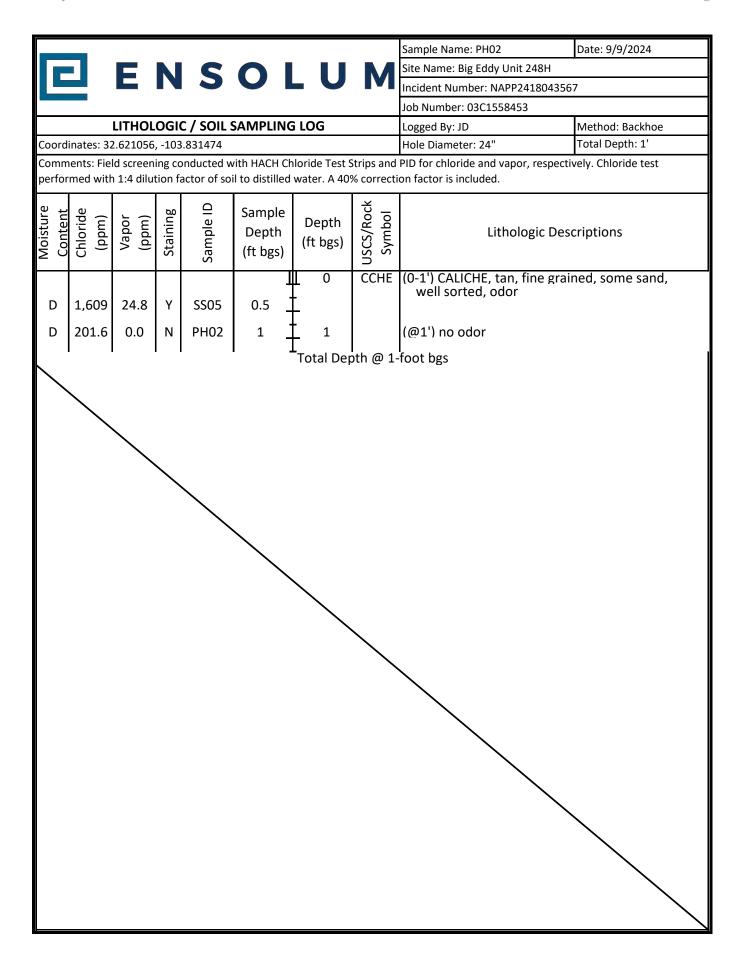
INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except extion 5, shall be answered as completely and occurately as possible when any well is drilled, repaired or deepened. When this except except except of the State Engineer is a specific to the appropriate district office of the State Engineer. All sections, except except except except of the State Engineer is a specific to the appropriate district office of the State Engineer. All sections, except ex



**APPENDIX B** 

Lithologic Soil Sampling Logs







APPENDIX C

Photographic Log



#### **Photographic Log**

XTO Energy, Inc Big Eddy Unit 248H NAPP2418043567





Photograph: 1 Date: 6/21/2024

Description: Recovery of free standing fluids

View: Northwest

Photograph: 2 Date: 7/12/2024

Description: Soil staining in release footprint

View: Northwest





Photograph: 3 Date: 7/12/2024

Description: Area of investigation

View: Southeast

Photograph: 4 Date: 9/9/2024 Description: Delineation and excavation activities

View: South



#### **Photographic Log**

XTO Energy, Inc Big Eddy Unit 248H NAPP2418043567



Photograph: 5 Date: 9/13/2024

Description: LPI -1 in undisturbed area

View: North



Photograph: 6 Date: 9/13/2024

View: Northeast

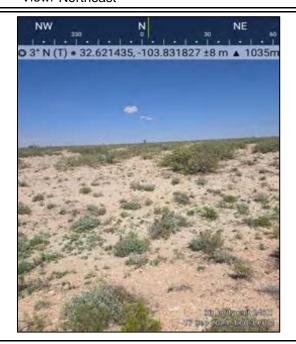
Description: LPI -2 in area of investigation



Photograph: 7 Date: 9/13/2024

Description: LPI -2 in area of investigation

View: Southwest



Photograph: 8 Date: 9/17/2024 Description: View of area of investigation from pad edge

View: North



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



August 02, 2024

DAVID MCINNIS ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:25.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyand By 14

Project Location: XTO 32.62087 -103.83145

#### Sample ID: SS 01 .5' (H244536-01)

DTEV 0021D

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	e, SM4500Cl-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Alyssa Parras

Project Location: XTO 32.62087 -103.83145

#### Sample ID: SS 02 .5' (H244536-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
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	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	123 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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#### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

#### Sample ID: SS 03 .5' (H244536-03)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	18						

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#### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

#### Sample ID: SS 04 .5' (H244536-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	182	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	55.3	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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#### Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

#### Sample ID: SS 05 .5' (H244536-05)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	< 0.050	0.050	08/01/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	1870	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	465	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	127	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	147	% 49.1-14	8						

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#### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

#### Sample ID: SS 06 .5' (H244536-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	0.384	0.050	08/01/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	1.52	0.050	08/01/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	3.26	0.150	08/01/2024	ND	6.59	110	6.00	5.45	
Total BTEX	5.16	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	153	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	75.7	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	2710	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	613	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	131	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	153	% 49.1-14	8						

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#### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62087 -103.83145

ma/ka

#### Sample ID: SS 07 .5' (H244536-07)

RTFY 8021R

B1EX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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#### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

#### Sample ID: SS 08 .5' (H244536-08)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500CI-B	oloride, SM4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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#### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

#### Sample ID: SS 09 .5' (H244536-09)

BTEX 8021B

	979		7,250						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0 % 71.5-13		4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	08/01/2024	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	75.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.2	% 49.1-14	8						

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#### Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact

Sample Received By: Project Number: 03C1558453 Alyssa Parras

Project Location: XTO 32.62087 -103.83145

#### Sample ID: SS 10 .5' (H244536-10)

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	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	08/01/2024	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

### Sample ID: SS 11 .5' (H244536-11)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	08/01/2024	08/01/2024 ND		112	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	89.6% 49.1-148							

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

### Sample ID: SS 12 .5' (H244536-12)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed Method Blank		BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 % 49.1-148		8						

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Celey D. Keine



### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

### Sample ID: SS 13 .5' (H244536-13)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit Analyzed Method Bl		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celey D. Keene



### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: David Mcinnis		BILL TO		ANALYSIS REQUEST
Address: 3122 National Parks Hwy	Hwv	P.O.#:		
City: Carlsbad	State: NM Zin: 88220	Company: X I O Energy Inc.	/ Inc.	
Phone #: 409-454-3009		Address: 3104 E Gree	Greene St	
Project #: 03C1558453	Project Owner: XTO	- 11	and Of-	
Project Name: Big Eddy Unit 248H		City, Conscious		
Project Location: 32.62087	703,431615	Phone # Zip: 00220		
Sampler Name: Jesse Dorman		Fav #-		
FOR UNB USE ONLY	MATRIX	PRESERV SAMPI		
	R	AND		
Lab I.D. Sample I.D.	(feet) (f	BASE:	ORIDE	
1594E24	GROU WAST SOIL OIL SLUDG	OTHER ACID/E ICE / C OTHER	BTE TPH CHL	
(6))	1.9 5.	7/23/200	0:35	
55		0	10.16	
55		2	1/80	1
>		10.	3	
7 407			1 / 50.	
8055 8			1/02	
2		100	1	
NUMBEROTE: Labely and Daniages. Certificat's tabley and of markers. All claims including bose for negligenous and any other	and a exclusion variety for any claim arriving whenther based in contrast or to	The state of the s	1/1/5	
mention. In no entert that Cardenal the habita for recitantal or corns fillams or accommon arrang but of or related to the performance Relinquished By:	16.2.4	colored by Castinal within 30 days after completo roll vale, or loss of putits sourced by client, is sub- seed upon any of the above stated research or an	edor of the applicable subschares,	
2 4	730-24 Neceived by:	All S	Verbal Result: O Yes W No	Add'l Phone #:
relinquished By:	1425 apawas	g	bbeiligensolum.com, TMorrissey	bbeili@enschm.com, TMorrissey@ensolum.com, dmcInnis@ensolum.com
		REN	Cost Center: 114/201001	100
Delivered By: (Circle One)	O. Year, Sector		100100000000000000000000000000000000000	Incident ID: nAPP2418043567
her:	Cool Intelligence Condition	(Initials)	Turnaround Time: Standard Thermometer ID #113-4	Bacteria (only) Sample Condition Cool Infact Observed Temp. 'C

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### CARDINAL Laboratories 101 East Marland, Hobbs, NM 8824

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

Project Manager: David Mcinnis		201		ANALYSIS REQUEST
Address: 3122 National Parks Hwy		YTO Engral In		
city: Carlsbad	State:NM Zip: 88220	Attn: Amy Ruth	g may	
Phone #: 409-454-3009		1	Greene St.	
Project #: 03C1558453	Project Owner: XTO	-		
Project Name: Big Eddy Unit 248H		State: NM Zip: 88220	0	
Project Location:			-	
Sampler Name: Jesse Dorman		1		
EVEN TELEGRAPHIC		Fax #:		
LON DIS OSCURY	MATRIX	PRESERV. SAMPLING	LING	
Lab I.D. Sample I.D.	OWATER			
1634463V	G)RAB CONT GROUN WASTER BOIL DIL	CE/CO THER	BTEX FPH CHLC	
11 55/1	1 1	7 7	1	
13512			1 80	
6156 61	4	+	1/25/	
		1		
37				
errolymes. All claims including those for regisjence and any other service, in no event shall Cardinal be liable for exidental or consufficient or socioesoms alway and of or retained to the performance.	Deemed wahed unless made in writing and will will imitation, business intemptions, in druffinal impartitions of whether such claim in	or corr, must be sonted to the amount past by secreted by Cardinal within 30 days after cor- se of use, or has of profits incomed by client, thesed upon gry of the above stated execu-	padity to clast to the disc completion of the applicable by Clant, its actividation.	
Company of	Ti 30 21 Received By:	W	Verbal Result: 1 Yes 1 No	Add'! Phone #:
( Jana		à	All Results are emailed. Please provide Email address: bbesiligensolum.com, TMorrissey@ensolum.com dmclr	Results are emailed. Please provide Email address:  bbeiligensolum.com, TMorrissev@ensolum.com, dmcInnis@assolum.com
Reinquished By:	Date: Received By:	22	REMARKS:	Commence of the Commence of th
Delivered By: (Circle One)	-		COSt Cerner: 1140201001	Incident ID: nAPP2418043567
ier:	Sample Condition	(Initials)	Turnaround Time: Standard Rush Thermometer ID +115-#	Bacteria (only) Sample Condition Cool Intact Observed Temp. "C



September 17, 2024

DAVID MCINNIS

**ENSOLUM** 

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 09/10/24 13:00.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY

CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H

Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH 01 6'	H245458-01	Soil	09-Sep-24 11:30	10-Sep-24 13:00
PH 01A 8'	H245458-02	Soil	09-Sep-24 12:05	10-Sep-24 13:00
FS 10 2'	H245458-03	Soil	09-Sep-24 13:50	10-Sep-24 13:00
FS 11 2'	H245458-04	Soil	09-Sep-24 13:55	10-Sep-24 13:00
FS 15 2'	H245458-05	Soil	09-Sep-24 14:10	10-Sep-24 13:00
PH 02 1'	H245458-06	Soil	09-Sep-24 15:10	10-Sep-24 13:00

09/17/24 - Client changed the sample IDs for -01, -02 and -06 (see COC). This is the revised report and will replace the one sent on 09/11/24.

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

### PH 01 6' H245458-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	752		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5	-134	4091019	JH	10-Sep-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctane			97.1 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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Celey D. Keene



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

### PH 01A 8' H245458-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		106 %	71.5	-134	4091019	JH	10-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctane			97.7 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

### FS 10 2' H245458-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		103 %	71.5	-134	4091019	JH	10-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctane			100 %	48.2-	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			120 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

### FS 11 2' H245458-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5	-134	4091019	JH	10-Sep-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctane			96.4 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

### FS 15 2' H245458-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		107 %	71.5	-134	4091019	JH	10-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctane			97.8 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			113 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

### PH 02 1' H245458-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		107 %	71.5	-134	4091019	JH	10-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	87.4		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	13.3		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctane			94.3 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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### **Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4091126 - 1:4 DI Water										
Blank (4091126-BLK1)				Prepared &	Analyzed:	11-Sep-24				
Chloride	ND	16.0	mg/kg							
LCS (4091126-BS1)				Prepared &	z Analyzed:	11-Sep-24				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4091126-BSD1)				Prepared &	z Analyzed:	11-Sep-24				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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%REC

Limits

RPD

### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

m,p-Xylene

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

o-Xylene

Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Spike

Level

4.00

2.00

6.00

0.0500

Source

Result

%REC

97.7

92.5

96.0

101

89-129

86.1-125

88.2-128

71.5-134

Fax To:

Reporting

Limit

Result

3.91

1.85

5.76

0.0504

0.100

0.050

0.150

mg/kg

mg/kg

mg/kg

mg/kg

Reported: 17-Sep-24 15:23

RPD

Limit

16.2

16.7

12.2

12.9

12.4

Notes

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

Units

Blank (4091019-BLK1)				Prepared & Anal	yzed: 10-Sep-24				
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500	103	71.5-134			
LCS (4091019-BS1)				Prepared & Anal	yzed: 10-Sep-24				
Benzene	2.05	0.050	mg/kg	2.00	102	82.8-130			
Toluene	2.08	0.050	mg/kg	2.00	104	86-128			
Ethylbenzene	2.07	0.050	mg/kg	2.00	103	85.9-128			
m,p-Xylene	4.42	0.100	mg/kg	4.00	110	89-129			
o-Xylene	2.11	0.050	mg/kg	2.00	105	86.1-125			
Total Xylenes	6.52	0.150	mg/kg	6.00	109	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500	100	71.5-134			
LCS Dup (4091019-BSD1)				Prepared & Anal	yzed: 10-Sep-24	ŀ			
Benzene	1.81	0.050	mg/kg	2.00	90.3	82.8-130	12.5	15.8	
Toluene	1.84	0.050	mg/kg	2.00	92.0	86-128	12.4	15.9	
Ethylbenzene	1.82	0.050	mg/kg	2.00	90.9	85.9-128	12.9	16	

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%REC

Limits

RPD

### **Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Surrogate: 1-Chlorooctadecane

Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Spike

Level

50.0

Source

Result

%REC

118

49.1-148

Fax To:

Reported: 17-Sep-24 15:23

RPD

Limit

Notes

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Units

Reporting

Limit

Result

58.9

r mary to	resur	Limit	Cints	Level	recourt	/orche	Lilling	IG D	Lilling	110105
Batch 4091016 - General Prep - Organics										
Blank (4091016-BLK1)				Prepared &	Analyzed:	10-Sep-24	ŀ			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.5	48.2-134			
Surrogate: 1-Chlorooctadecane	53.1		mg/kg	50.0		106	49.1-148			
LCS (4091016-BS1)				Prepared &	Analyzed:	10-Sep-24	ŀ			
GRO C6-C10	204	10.0	mg/kg	200		102	66.4-123			
DRO >C10-C28	199	10.0	mg/kg	200		99.4	66.5-118			
Total TPH C6-C28	403	10.0	mg/kg	400		101	77.6-123			
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	49.1-148			
LCS Dup (4091016-BSD1)				Prepared &	z Analyzed:	10-Sep-24	ļ			
GRO C6-C10	210	10.0	mg/kg	200		105	66.4-123	3.00	17.7	
DRO >C10-C28	209	10.0	mg/kg	200		104	66.5-118	4.92	21	
Total TPH C6-C28	419	10.0	mg/kg	400		105	77.6-123	3.95	18.5	
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	48.2-134			

mg/kg

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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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Celey D. Keens

Celey D. Keene, Lab Director/Quality Manager

Page 12 of 13

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Project Manager: David Mcinnis		ANALYSIS REQUEET
Address: 3122 National Parks Hwy		STATE OF STA
city: Carlsbad	State:NM Zip: 88220 Amy Amy Right	
Phone #: 409-454-3009	Add 3104 E	
2	Project Owner: XTO City: Carlshad	
1		
Project Location: 32.62087, -103.83145		
Sampler Name: Jesse Dorman		
FOR LAB USE CALLY	Fax #:	
	ESERV	
	S ER	
Lab I.D. Sample I.D.	Sample Depth  G)RAB OR (C)  CONTAINERS  ROUNDWATE  ASTEWATER  DIL  LUDGE  THER:  E10/BASE:  E / COOL  HER:	HLORIDE
HXX OIST	90 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	TI
S Fils	1	
39		
LARE NOTE: Listelly and Demayon. Cardina's spotsy and signes. At claims, including Pross for registence and any et- rics. In no exert and Cardina's les state for included or services as single cold of or related by the performan- les in traces have the cold of or related by the performan-	Chariff, exclusive similarly for any states arrang whether based in content or size, what the limited to the emissional by the client by the critical by the client by the	ladde
elinquished by:	Date: Received By:	emailed. Please provide Email address: nsolum.com [Morrissey@ensolum.com]
elivered By: (Circle One) Os	Sample Condition CHECKED BY: Turnaround CHECKED BY: Turnaround	San San
	† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinaffabsnm.com	eene@cardinattabsnm.com



September 18, 2024

DAVID MCINNIS
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 09/17/24 14:11.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 09/17/2024
 Sampling Date:
 09/17/2024

 Reported:
 09/18/2024
 Sampling Type:
 Soil

Reported: 09/18/2024 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Coo

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 14 .5' (H245642-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/18/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	117 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 15 .5' (H245642-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
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	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 16 .5' (H245642-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	18						

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### Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 03C1558453

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 17 .5' (H245642-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	< 0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	109 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 %	6 49.1-14	8						

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### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 18 .5' (H245642-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	< 0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 19 .5' (H245642-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 20 .5' (H245642-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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### Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 21 .5' (H245642-08)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 22 .5' (H245642-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	< 0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	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	09/18/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 23 .5' (H245642-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
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	09/18/2024	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	09/18/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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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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Celeg D. Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



### 101 East Marland, Hobbs, NM 88240

(575) 393-2326 FA	FAX (575) 393-2476			
		BILL TO		ANALYSIS REQUEST
Da		P.O. #:		
Address: 3122 National Parks Hwy	y	Company: XTO Energy Inc.	Inc.	
city: Carlsbad	State: NM Zip: 88220	Attn: Amy Ruth		
6		Address: 3104 E. Green	in St.	
Project #: 03C1558453	Project Owner: XTO	city: Carlsbad		
an		State: NM Zip: 88220		
Ä	83145	Phone #:		
Service Name: Jesse Dorman		Fax #:		
Sampler Name; Jesse Dollingti		DOCCEDA.	NG	
FOR UNE ONLY	IP. MATRIX	X PRESERV. SAMPLING		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMF CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH CHLORIDE	
A155 T	*		100	
2123			35	
2155 h			100	
6175 B			1744	
7 5500			11841	
1855 8			1 851	
2530		4	244	
P.LASE WOTE: Liakility and Damages. Cardinal's liability and i analyses. At claims including those for negligenos and any diffu- service. In no search shall Cardinal be liable for incidental or con-	clear's excitates remady for any claim unlikely whether based in cantract or bot ar cause whethcomer shall be genered waived unless made in unling and most sequential damages, including well-out limbation, business interruptions, loss of	shall be limited to the amount and by Cardinal within 30 days use, or love of profile incurred	d past by the claims for the urban completion of the applicable by claims, its subsidiation.	
Relinquished By:	Date; 7 3 Received By:	t claim is broad upon any of the spoot stated from	146.8	☑ No Add' Phone #: Please provide Email address:
/ non	90000 11 the 1	ional		Norrssey@ensolum.com, kthomason@ensolum.com
Relinquished By:	Date: Received By:	d	REMARKS: Cost Center 1140	1140201001 Incident ID: NAPP2418043567
Delivered By: (Circle One)	- 10	CHECKED BY:	Cime.	E
Sampler - UPS - Bus - Other:	Comment LP O CO C	200	那手	No No Corrected Temp. *C



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



August 02, 2024

DAVID MCINNIS ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:25.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil Project Name: BIG EDDY UNIT 248H Sampling Condition: Coo

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 01 .5' (H244536-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celeg D. Keene



### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 02 .5' (H244536-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	18						

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Celey D. Keine



# Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

# Sample ID: SS 03 .5' (H244536-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

# Sample ID: SS 04 .5' (H244536-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	182	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	55.3	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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# Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

# Sample ID: SS 05 .5' (H244536-05)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	< 0.050	0.050	08/01/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	1870	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	465	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	127	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	147	% 49.1-14	8						

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Celey D. Keene



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

# Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Alyssa Parras

Project Location: XTO 32.62087 -103.83145

# Sample ID: SS 06 .5' (H244536-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	0.384	0.050	08/01/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	1.52	0.050	08/01/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	3.26	0.150	08/01/2024	ND	6.59	110	6.00	5.45	
Total BTEX	5.16	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	153 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	75.7	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	2710	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	613	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	131 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	153 9	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62087 -103.83145

ma/ka

# Sample ID: SS 07 .5' (H244536-07)

RTFY 8021R

B1EX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celeg D. Keene



# Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

# Sample ID: SS 08 .5' (H244536-08)

BTEX 8021B

DILX GOZID	mg/	ng .	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

# Sample ID: SS 09 .5' (H244536-09)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	75.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.2	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact

Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

# Sample ID: SS 10 .5' (H244536-10)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.8	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62087 -103.83145

ma/ka

# Sample ID: SS 11 .5' (H244536-11)

RTFY 8021R

B1EX 8021B	mg,	<sup>и</sup> кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

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Celeg D. Keene



# Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact

Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

# Sample ID: SS 12 .5' (H244536-12)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62087 -103.83145

ma/ka

# Sample ID: SS 13 .5' (H244536-13)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# CARDINAL Laboratories 101 East Marland, Hobbs, NM 8824

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

Project Manager: David Mcinnis		OILL IO		ANALYSIS REQUEST
Address: 3122 National Parks Hwy		P.O.#:		
City: Carlsbad	State: NM Zip: 88220	Attn: Amy Ruth		
409-454-3009	Fax#:	Address: 3104 E. Greene St	e Si	
3C1558453	oject Owner: XTO			
m		State: NM 7in: 88220		
Project Location: 32.62087	703, 43145			
Sampler Name: Jesse Dorman		Pay #		
FOR U-BIUSE ONLY	L	1		
		PRESERV. SAMPLING	6	
Lab I.D. Sample I.D. SAMPLE I.D.	G)RAB OR (C)O CONTAINERS ROUNDWATER (ASTEWATER OIL LUDGE	THER: DID/BASE: E/COOL THER:	BTEX PH HLORIDE	
	1	7/29/200	1	
3 5503		1 09	19:40	
2		X:01	1/1/2	
-			1/1	
7 507			1 / 50	720
8055 8			1	
20		1114	01/	
**CAME NOTE: Labely and Danages, Cardina's labely and oler's a mayers. All claims including brains for engigence and any other mana- erisce. It no event shall Cardinal be leader for included or consequence.	eclarate many for any claim across events abased in contract or to exchange a point abased in certain care or to exchange a point abased in certain care or one of the contract or to exchange a point of the contrac	colored by Cardinal within 30 days within complete	derive and the second	
Relinquished By:	Date: Received By:	Verba	Verbal Result: Yes Win	
Colinquished By:	1925 apour	All Re bbe	All Results are emailed. Please pro bbelil@ensolum.com, TMorrissey(	Results are emailed. Please provide Email address;  bbeiligenschun.com, TMorrissey@ensolum.com, dmcthnis@ansolum.nom
		REMARKS. Cost Ce	Cast Center: 1140201001	Incident ID: nAPP2418043567
Ners Carrage	Sample Condition CHECKED BY: Turnaround Time: Standard M Ba Cool Intact (Initials)  No No No Thermometer ID #113-17   Control of the Control	(Initials) Thermo	Turnaround Time: Standard Rush Thermometer D +112-4 Rush	Bacteria (only) Sample Condition Cool Infact Observed Temp. 'C

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# Laboratories 101 East Marland, Hobbs, NM 8824

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

Company Name: Ensolum, LLC		BILL TO		NAI VOIS BEOLIEST
Project Manager: David Mcinnis		P.O.#:		ANALISIS REQUEST
Address: 3122 National Parks Hwy	wy	Company: XTO Energy Inc.		
city: Carlsbad	State: NM Zip: 88220	Attn: Army Ruth		
Phone #: 409-454-3009		Address: 3104 E. Greene St.		
Project #: 03C1558453	Project Owner: XTO			
Project Name: Big Eddy Unit 248H	248H	State: NM Zin. 88220		
Project Location:		3.0		
Sampler Name: Jesse Dorman		Tay b		
FOR JAND ISSU BALL RATING	MATRIX	PRESERV SAMPLING		
Lab I.D. Sample I.D.	Sample Depth OR (C)OMP. TAINERS NOWATER WATER	ASE:	ORIDE	
KSH4634	GROUN WASTE SOIL OIL	SLUDGI OTHER ACID/B/ ICE / CC OTHER DATE	TPH CHLC	
	1 10 .5.	1 488611	1	
20 25 2		12,50	1	
1	4	4 V 12.35	1	
		1		
CEASE NOTE: Lindly and Damages Conduct to San J				
melyes. All claims including those for outging one and any other o service. In the electric shall Cardinal be failed for excitenal or common times or secondors assempted of or intland to the performance.	cause arbitrationess trait for thermal waters around present blasted in copping questial diamages, occlustry witness limitation, business interruptions, of services interruption by Carolinas, requisitions of whether such claim.	<sup>48</sup> Seed o Codego, or tor, exall be linked to the amount paid by the cleent to the se made in willing and societed by Carginal within 30 days after completion of the a Seed of history done, best of case or less of profits incomed by cleen, the subsidiaries, "shellow such of the linked class or less of profits incomed by cleen, the subsidiaries," "shellow such of the linked class or less of profits incomed by cleen, the subsidiaries.	e approprie	
0 4 4	T 30 24 Received By:	Verbal Result	suit: Yes Y No Add	Add'l Phone #:
(Many	25	O bbeilige	bbeili@ensolum.com, TMorrissey@ensolum.com dmot	bbelligensolum.com, TMorrissey@ensolum.com dmcfinisiBessolum.com
constitution by.	Time:	REMARKS: Cost Center:	enter: 1140201001 Incid	Incident ID: nAPP2418043567
Delivered By: (Circle One)	Sample Condition	ion CHECKED BY: Turnaround Time:	Standard	Bacteria (only) Sample Condition
CONSTRUCT STREET	No No No	S Thermometer ID Correspond Ferri	140	Yes Yes Corrected Temp. "C



September 17, 2024

DAVID MCINNIS

**ENSOLUM** 

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 09/10/24 13:00.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY

CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH 01 6'	H245458-01	Soil	09-Sep-24 11:30	10-Sep-24 13:00
PH 01A 8'	H245458-02	Soil	09-Sep-24 12:05	10-Sep-24 13:00
FS 10 2'	H245458-03	Soil	09-Sep-24 13:50	10-Sep-24 13:00
FS 11 2'	H245458-04	Soil	09-Sep-24 13:55	10-Sep-24 13:00
FS 15 2'	H245458-05	Soil	09-Sep-24 14:10	10-Sep-24 13:00
PH 02 1'	H245458-06	Soil	09-Sep-24 15:10	10-Sep-24 13:00

09/17/24 - Client changed the sample IDs for -01, -02 and -06 (see COC). This is the revised report and will replace the one sent on 09/11/24.

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Celey D. Keens



# Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

# PH 01 6' H245458-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	752		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5	-134	4091019	JH	10-Sep-24	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctane			97.1 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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Celey D. Kreene

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

# PH 01A 8' H245458-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		106 %	71.5	-134	4091019	JH	10-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctane			97.7 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H

Project Number: 03C1558453 Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

# FS 10 2' H245458-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		103 %	71.5	-134	4091019	JH	10-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctane			100 %	48.2-	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			120 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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# Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

# FS 11 2' H245458-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		105 %	71.5	-134	4091019	ЈН	10-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctane			96.4 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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# Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

# FS 15 2' H245458-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		107 %	71.5	-134	4091019	JH	10-Sep-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctane			97.8 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			113 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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# Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

# PH 02 1' H245458-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	0)		107 %	71.5	-134	4091019	JH	10-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	87.4		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	13.3		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctane			94.3 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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# **Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H
Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Fax To:

Reported: 17-Sep-24 15:23

# **Inorganic Compounds - Quality Control**

# **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4091126 - 1:4 DI Water										
Blank (4091126-BLK1)				Prepared &	Analyzed:	11-Sep-24				
Chloride	ND	16.0	mg/kg							
LCS (4091126-BS1)				Prepared &	z Analyzed:	11-Sep-24				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4091126-BSD1)				Prepared &	z Analyzed:	11-Sep-24				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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%REC

Limits

RPD

# Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

o-Xylene

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Spike

Level

Source

Result

%REC

92.5

96.0

101

86.1-125

88.2-128

71.5-134

12.9

12.4

16.7

Fax To:

Reported: 17-Sep-24 15:23

RPD

Limit

Notes

# Volatile Organic Compounds by EPA Method 8021 - Quality Control

# **Cardinal Laboratories**

Units

Reporting

Limit

Result

1.85

5.76

0.0504

0.050

0.150

mg/kg

mg/kg

mg/kg

2.00

6.00

0.0500

Blank (4091019-BLK1)				Prepared & Anal	yzed: 10-Sep-24				
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500	103	71.5-134			
LCS (4091019-BS1)				Prepared & Anal	yzed: 10-Sep-24	ļ			
Benzene	2.05	0.050	mg/kg	2.00	102	82.8-130			
Toluene	2.08	0.050	mg/kg	2.00	104	86-128			
Ethylbenzene	2.07	0.050	mg/kg	2.00	103	85.9-128			
m,p-Xylene	4.42	0.100	mg/kg	4.00	110	89-129			
o-Xylene	2.11	0.050	mg/kg	2.00	105	86.1-125			
Total Xylenes	6.52	0.150	mg/kg	6.00	109	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500	100	71.5-134			
LCS Dup (4091019-BSD1)				Prepared & Anal	yzed: 10-Sep-24	ļ			
Benzene	1.81	0.050	mg/kg	2.00	90.3	82.8-130	12.5	15.8	
Toluene	1.84	0.050	mg/kg	2.00	92.0	86-128	12.4	15.9	
Ethylbenzene	1.82	0.050	mg/kg	2.00	90.9	85.9-128	12.9	16	
m,p-Xylene	3.91	0.100	mg/kg	4.00	97.7	89-129	12.2	16.2	

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Celey D. Kreene



%REC

# **Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Spike

50.0

118

49.1-148

Source

Fax To:

Reported: 17-Sep-24 15:23

RPD

# Petroleum Hydrocarbons by GC FID - Quality Control

# **Cardinal Laboratories**

Reporting

58.9

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4091016 - General Prep - Organics										
Blank (4091016-BLK1)				Prepared &	& Analyzed:	10-Sep-24				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.5	48.2-134			
Surrogate: 1-Chlorooctadecane	53.1		mg/kg	50.0		106	49.1-148			
LCS (4091016-BS1)				Prepared &	& Analyzed:	10-Sep-24				
GRO C6-C10	204	10.0	mg/kg	200		102	66.4-123			
DRO >C10-C28	199	10.0	mg/kg	200		99.4	66.5-118			
Total TPH C6-C28	403	10.0	mg/kg	400		101	77.6-123			
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	49.1-148			
LCS Dup (4091016-BSD1)				Prepared &	& Analyzed:	10-Sep-24				
GRO C6-C10	210	10.0	mg/kg	200		105	66.4-123	3.00	17.7	
DRO >C10-C28	209	10.0	mg/kg	200		104	66.5-118	4.92	21	
Total TPH C6-C28	419	10.0	mg/kg	400		105	77.6-123	3.95	18.5	
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	48.2-134			

mg/kg

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Surrogate: 1-Chlorooctadecane



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



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

eraliyees. All claims including those for negligen- eralizes. All claims including those for negligen- eralics. In no event shall Carolinal be liable for a	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Project Manager: David Mcinnis
Coverage of a man, 'C, 2's Sample Condition is the deal to the second of the condition of t	State: NM Zip: 88220 Fax #:  Project Owner: XTO  Init 248H  -103.83145  Sample Depth (G)OMP GGRAB OR (C)OMP GROUNDWATER WASTEWATER WASTEWATER WASTEWATER SOIL OIL SLUDGE OTHER	C
Inval by the clase by the applicable of the applicable by dient, it is adordown.  Intercrit or otherwise.  Verbal Result:   OMcinnis@ensolum.co  REMARKS:   Cost Celliat:	Company: XTO Energy Inc.  Attn: Army Ruth  Address: 3104 E. Green St.  City: Carlsbad  State: NM Zip: 88220  Phone #:  Fax #:  PRESERV SAMPLING  1356  BTEX  TPH  CHLORIDE	BILL TO
M No   Add'l Phone #: Please provide Email address: m TMorrissey@ensolugi.com, \$1000001   Augurated 1000		ANALYSIS REQUEST



September 18, 2024

DAVID MCINNIS
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 09/17/24 14:11.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024
Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

# Sample ID: SS 14 .5' (H245642-01)

BTEX 8021B	mg,	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
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	09/18/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	117 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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# Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

# Sample ID: SS 15 .5' (H245642-02)

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	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
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	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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# Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 03C1558453

Project Location: XTO 32.62087 -103.83145

# Sample ID: SS 16 .5' (H245642-03)

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	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	< 0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	71.5-13	4						
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	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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# Analytical Results For:

**ENSOLUM** DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 03C1558453

Project Location: XTO 32.62087 -103.83145

# Sample ID: SS 17 .5' (H245642-04)

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	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
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	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	109 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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# Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

# Sample ID: SS 18 .5' (H245642-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
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	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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# Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

# Sample ID: SS 19 .5' (H245642-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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# Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

# Sample ID: SS 20 .5' (H245642-07)

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	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
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	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celeg D. Keene

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



# Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

#### Sample ID: SS 21 .5' (H245642-08)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	111	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 22 .5' (H245642-09)

BTEX 8021B	mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

### Sample ID: SS 23 .5' (H245642-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



## 101 East Marland, Hobbs, NM 88240

		מלו זומ		ANALYSIS RECUES
Company Marine. Ensolum, LLC		DILL 10		Districto interest
Project Manager: David Mcinnis		P.O. #:		
Address: 3122 National Parks Hwy	wy	Company: XTO Energy Inc.	nc.	
city: Carlsbad	State: NM Zip: 88220	Attn: Amy Ruth		
		E. Green	St	
	Project Owner: XTO	City: Carlsbad		
2		State: NM Zip: 88220		
1	2 27 7 2			
Project Location: 32.62087, -103.83145	3.83145	Phone #:		
Sampler Name: Jesse Dorman		Fax#:		
FOR USE ONLY	MATRIX	PRESERV. SAMPLING	G	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:  DATE	BTEX TPH CHLORIDE	
4155 T	32 8	1 12/21/6 /	30 1	
\$ 5155			**************************************	
6135 h			36	
2 3514			200	
4755			784	
1895 8			SALL	
2550		<i>C</i>	10 A A A	
PLEASE NOTE: Liabily and Damages. Custines's labely as analyses. All claims soluting from its replication and any analyses. All claims and control of the co	By and clearly exclusive remarky for any claim arising whether bessed in co any other cause whatsopers shall be deemed worked unless made in wife or commonweal demander, including without limit about, business internal	the based is contract or bot, that he timiset to the amount past by the client for the sea made in waiting and received by Cardinal within 30 days after comprision of the applicable schemes interruptions, loss of use, or loss of portile incurred by client, the schedulers.	of past by the client for the ye after completion of the applicable of by client, its subsidiaries.	
Relinquished By:	Date; O Received By:	Claim is hased upon any of the above states (responsible Vig	140.8	☑ No  Addî Phone #:
/ com	2000	piones a	Dmcinnis@ensolum.com TMc	m TMorrissey@ensolum.com, kthomason@ensolum.com
Relinquished By:	Date: Received By:		REMARKS: Cost Center 1140201001	101001 Incident ID: NAPP2418043567
Delivered By: (Circle One)	Observed Tamp. 'C   C   Sample Condition	CHECKED BY:	nd Time:	Bacteria (only) S
Sampler - UPS - Bus - Other:	J <sub>2</sub> , ***1, ***	Sinter Sinter	月平	No No Corrected Temp. *C



February 03, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BEU 2481249H

Enclosed are the results of analyses for samples received by the laboratory on 01/31/25 17:00.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 01/31/2025 Reported:

02/03/2025

Sampling Date: Sampling Type: 01/31/2025

Soil

Project Name: BEU 2481249H

03C155877 03C1558453

Sampling Condition: Sample Received By: Cool & Intact Alyssa Parras

Project Number: Project Location:

DTEV 0021D

XTO 32.62085, -103.83132

Sample ID: PH 03 1 (H250597-01)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	01/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4040	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

Applyand By 14

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### Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact 03C155877 03C1558453 Project Number: Sample Received By: Alyssa Parras

Project Location: XTO 32.62085, -103.83132

### Sample ID: PH 03 4 (H250597-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	01/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.3	% 49.1-14	8						

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### Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62085, -103.83132

mg/kg

### Sample ID: PH 01 5 (H250597-03)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	01/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.5	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C155877 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085, -103.83132

ma/ka

### Sample ID: PH 01 6 (H250597-04)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	01/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil
Project Name: BEU 2481249H Sampling Condition: Cool & Intact

Project Number: 03C155877 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085, -103.83132

ma/ka

### Sample ID: PH 01 9 (H250597-05)

RTFY 8021R

of the control of the	ND ND	BS 2.33 2.37 2.53	% Recovery 117 119 127	2.00 2.00	RPD 0.910 2.56	Qualifier
050 01/31/2025 050 01/31/2025	ND ND	2.37	119	2.00		
050 01/31/2025	ND				2.56	
		2.53	127	2.00		
150 01/31/2025	ND			2.00	1.63	
		7.63	127	6.00	0.157	
300 01/31/2025	ND					
71.5-134						
Analy	zed By: AC					
ing Limit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
6.0 02/03/2025	ND	416	104	400	7.41	
Analy	zed By: MS					
ing Limit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
0.0 01/31/2025	ND	202	101	200	0.762	
0.0 01/31/2025	ND	181	90.4	200	2.52	
0.0 01/31/2025	ND					
48.2-134						
49.1-148						
	ing Limit Analyzed 0.0 01/31/2025 0.0 01/31/2025 0.0 01/31/2025 48.2-134	0.0 01/31/2025 ND 0.0 01/31/2025 ND 0.0 01/31/2025 ND 48.2-134	ting Limit Analyzed Method Blank BS 0.0 01/31/2025 ND 202 0.0 01/31/2025 ND 181 0.0 01/31/2025 ND 48.2-134	ting Limit Analyzed Method Blank BS % Recovery 0.0 01/31/2025 ND 202 101 0.0 01/31/2025 ND 181 90.4 0.0 01/31/2025 ND	ting Limit Analyzed Method Blank BS % Recovery True Value QC 0.0 01/31/2025 ND 202 101 200 0.0 01/31/2025 ND 181 90.4 200 0.0 01/31/2025 ND 48.2-134	ting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 0.0 01/31/2025 ND 202 101 200 0.762 0.0 01/31/2025 ND 181 90.4 200 2.52 0.0 01/31/2025 ND 48.2-134

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C1558473 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085, -103.83132

ma/ka

### Sample ID: PH 04 4 (H250597-06)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	01/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	179	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	41.8	10.0	01/31/2025	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keine



### Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact Project Number: 03C155877 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62085, -103.83132

### Sample ID: PH 02 1 (H250597-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	01/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	135	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	54.7	10.0	01/31/2025	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

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### **Notes and Definitions**

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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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Celeg D. Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## 101 East Marland, Hobbs, NM 88240

The Relinquished By:	PLEASE NOTE: Laddy and Damages, Cardout's tablity and di malpain. All claims including those for implicance and any other service, it no exist shall Cardinal for lastice for included or consistency arising out of or related to the performance	2 0407	10rp & 5	10Ha	10Kg	PH03	Lab I.D. Sample I.D.		Eura	37.6	000	roject #02/155677 03	5-937-3	ity: Midland		roject Manager:	ompany Name: Ensolum, LLC	(675) 393-2326
1 8 50	act solution ren cause uhatboren rependu damages, a of services hereu	-	220	6	v t	-	Depth (feet)			5	34C	13 1155 6 Toject Owner:	26 Fax#:	State: TX	Suite 400	Lillera		(575) 393-2326 FAX (575) 393-2476
S S	Carry of God with	<b>A</b>	55	6 4		2	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER	MATRIX		13,83122	12494	ner: XTO Energy		Zip: 79701				2476
ondition CHECKED BY:	am arrang whether based in contract in but, shall be limited to the amount past by the direct but the net sudved unless made in witting and incremed by Condinal wittin 30 days after completion of the applicable and insulations, business attemptions, less of use, or less of polyth incurred by sidest, the buddeliness, our insulations, business attemptions, less of use, or less of the above stated casedous or differentles, our requirement of whether such claim is based upon any of the above stated casedous or differentles.  Verbal Result:	5	< <	-	-1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	RESERV.	Fax#:	Phone #:	State: NM Zip:	city: Carlsbad	Address: 3104 E Greene	Attn: Colton Brown	Company: XTO Energy, Inc.	P.O. #	BILL TO	
P	enount god by the dwart for the 50 days after condition of the appli- counts by claim, its subsidiaries, we stated reasons or otherwise.	1241 STUE	131/25 1408	-		13/15/10/05	TIME	SAMPLING			88220		Greene St	wn	Energy, Inc		70	
BBeiligensolum.com, TMorrissoy@ REMARKS: n.86672418043567 n.4662432142637 n.4662432142637 Turnaround Time: Standard Thermometer ID #313741007	episation   Pes   No	5	< < <	15	1	5	TPH 8015  BTEX 8021  Chloride 4500											
gensolum 2 A A	No Add'l Phone #:					-											ANALYSIS R	
n & PP 243253:235  n & PP 243253:235  n & PP 243253:235  n & PP 2502042071  Bacteria (only) Sample Condition  Cool Intact Observed Temp. 'C																	REQUEST	



February 03, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BEU 2481249H

Enclosed are the results of analyses for samples received by the laboratory on 01/31/25 17:00.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C155877 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62085, -103.83132

### Sample ID: PH 05 1' (H250598-01)

Analyte	Result	Reporting Limit							
		reporting Little	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.15	0.500	02/03/2025	ND	2.37	118	2.00	6.88	
Toluene*	16.3	0.500	02/03/2025	ND	2.51	125	2.00	11.1	
Ethylbenzene*	11.9	0.500	02/03/2025	ND	2.54	127	2.00	12.7	
Total Xylenes*	23.7	1.50	02/03/2025	ND	7.52	125	6.00	12.8	
Total BTEX	53.1	3.00	02/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	419	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	1550	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	277	10.0	01/31/2025	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

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### Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C1558473 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085, -103.83132

ma/ka

### Sample ID: PH 05 2' (H250598-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2025	ND	2.37	118	2.00	6.88	
Toluene*	0.215	0.050	02/03/2025	ND	2.51	125	2.00	11.1	
Ethylbenzene*	0.080	0.050	02/03/2025	ND	2.54	127	2.00	12.7	
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.52	125	6.00	12.8	
Total BTEX	0.474	0.300	02/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	202	101	200	0.762	
DRO >C10-C28*	20.7	10.0	02/03/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 01/31/2025 Reported:

02/03/2025

mg/kg

Project Name: BEU 2481249H 03C155877 03C1558453 Project Number:

Project Location: XTO 32.62085, -103.83132 Sampling Date: 01/31/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

### Sample ID: PH 05 3' (H250598-03)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	02/01/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	02/01/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	02/01/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	02/01/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					
Surrogate: 1-Chlorooctane	83.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.0	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact 03C155877 03C1558453 Project Number: Sample Received By: Alyssa Parras

Project Location: XTO 32.62085, -103.83132

### Sample ID: PH 05 4' (H250598-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	02/01/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	02/01/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	02/01/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	02/01/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.6	% 49.1-14	8						

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### Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085, -103.83132

ma/ka

### Sample ID: PH 05 5' (H250598-05)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	02/01/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	02/01/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	02/01/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	02/01/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						
surrogate: 1-Chiorooctaaecahe	97.9	/0 49.1-14	O						

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### Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact 03C155877 03C1558453 Sample Received By: Alyssa Parras Project Number:

Project Location: XTO 32.62085, -103.83132

### Sample ID: PH 05 6' (H250598-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	02/01/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	02/01/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	02/01/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	02/01/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025 Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact

XTO 32.62085, -103.83132

03C155877 03C1558453 Project Number: Sample Received By: Alyssa Parras

### Sample ID: PH 05 7' (H250598-07)

Project Location:

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	02/01/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	02/01/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	02/01/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	02/01/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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01/31/2025

### Analytical Results For:

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

Received: 01/31/2025 Sampling Date:

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact 03C155877 03C1558453 Project Number: Sample Received By: Alyssa Parras

Project Location: XTO 32.62085, -103.83132

### Sample ID: PH 05 8' (H250598-08)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	02/01/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	02/01/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	02/01/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	02/01/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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### **Notes and Definitions**

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326	FAX (575) 393-2476	176		ANAL YSIS	IS REQUEST
Company Name: Ensolum, LLC			BILL 10		
Project Manager: Trues Hil	Hillerd				
S	Suite 400		Company: XIO Energy, Inc	17	
City: Midland	State: TX	Zip: 79701	Attn: College promi	2	
Phone #: 575-437-35	3		98	a G	
2750	15 Froject Owner:	r: XTO Energy	sbad		
200.1	71872	464	State: NM Zip: 88220		
Topoci nome. O 6208	do	132	Phone #:		
000000			Fax 非:		
Sampler Name: (E-VC-41   C-C	- 6	MATRIX	PRESERV. SAMPLING	LING	
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:	TPH 8015  BTEX 8021  Chloride 4500	
HUSOSTO PHOS	_	<	1	1307 / / /	
2 DXQS	2	6	V W3/73	1313 0 0 0	
-	W			10110	
0	ıt.	2	1/1/1/1/2	200	
SOROS	v		101/10	233 / V	
4 PACS	10	2 <	2 /4/1 V	1239 V V V	
50403	oc.	25	5 1/302	1348 V V V	
PLAGE NOTE: Lability and Damages. Certificat's lability and of seasons. At theires including those for negliginous and any other seasons.	ty and clearly exclusive remedy any other cause whateverse shall	to any clean assing whether based is contest or not be deemed waterd-orders made in witing and soon	shall be finded to the emount set by Cardinal within 10 days.	or past by the cleant for the purity completion of the applicable of by client, the subsectionss,	
and/or, is no executable Cardinal or label in recognision or effects or successors away out of or related to the patients. Relinquished By:	0.00	Received By:	ain a tased upon any of the above state.	Verbal Result: D Yes D No Add'l Phone 8:  All Results are emailed. Please provide Email address:  BBellil@ensolum.com, TMorrissey@ensolum.com, THilla	s I No Add'l Phone #: Please provide Email address: Thomasey@ensolum.com, THilland@ensolum.com
Relinquished By:	Date:	Raceived By:	8	32147637 01	nAPP 243253 1235 nAPP 250 204 2071
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Tump	Sample Condition Cool Intact Cool Intact No.	rdition CHECKED BY: ct (Initials) Yes No	Standard W	Cool Intact Observed Temp. *C    Yes   Yes   No Corrected Temp. *C
CONDITION AND SOCIATION	† Cardin	al cannot accept verbal	Cardinal cannot accept verbal changes. Please email changes to celey. Interior	anges to celey.kdene@cardinallabsnm.com	3



Appendix E

NMOCD Correspondence

### **Ben Belill**

From: Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Sent: Thursday, January 16, 2025 9:51 AM

**To:** Brown, Colton S

Cc: Dirkx, Kaylan; Garcia, Amanda; Mcafee, Ashley A; Tacoma Morrissey; Ben Belill; Bratcher,

Michael, EMNRD; Wells, Shelly, EMNRD

**Subject:** (Variance Approval) -XTO - Big Eddy Unit 248H- Incident Number NAPP2418043567

### [ \*\*EXTERNAL EMAIL\*\*]

### Colton,

The Variance Request for confirmation floor sample size of 1,000 ft2 in the "Area of Investigation" is approved. The "Release Area" will still need confirmation samples representing no more than 200 ft2. Please include this e-mail correspondence in the Remediation Closure Report. I have changed the location and coordinates to match where the majority of the release occurred, which is Unit A, Section 35, Township 19 South, Range 31 East, in Eddy County, New Mexico (32.62087°, -103.83145°).

Regards,

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/



From: Brown, Colton S <colton.s.brown@exxonmobil.com>

Sent: Thursday, January 16, 2025 7:19 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Cc: Dirkx, Kaylan <kaylan.dirkx@exxonmobil.com>; Garcia, Amanda <amanda.garcia@exxonmobil.com>; Mcafee, Ashley

A <ashley.a.mcafee@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill

<br/>
<br/>
densolum.com>

Subject: [EXTERNAL] XTO- Variance Request- Big Eddy Unit 248H- Incident Number

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Morning,

Please see the sampling variance below and supporting documentation attached. Please let me know of any questions or concerns.

Mr. Hamlet,

Based on our discussion today, XTO is submitting a variance request for the confirmation soil sampling requested in the conditions of approval for a Remediation Work Plan. The Work Plan was submitted September 20, 2024 and approved on November 6, 2024 with the following conditions of approval:

"...Confirmation samples will need to be conducted at surface and at 0.5 feet in the "Area of Investigation" to ensure that contaminants didn't get carried/deposited in this area. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule."

As discussed on our call, January 15, 2024, the "area of investigation" was investigated to assess the area due to high winds at the time of the release in a northwesterly direction. Vegetation was assessed by a staff biologist, and delineation soil samples were collected within an around the area of investigation. The vegetation was determined to be healthy and similar to the surrounding area and no impacts to soil were identified. As such, XTO proposed continued monitoring of the area of investigation. XTO's goal was to be especially protective of the sparse vegetation in the area and to mitigate any additional disturbance of the area as it is in a mapped area for potential Dune Sagebrush Lizard habitat. Following our conversation, XTO understands the need for confirmation soil sampling of the area, however, to ensure minimal disturbance of the area, XTO proposes a variance of the 200 square foot confirmation soil sample frequency and recommends confirmation soil sample be collected on a 1,000 square foot sampling frequency. We believe this will provide additional confirmation that no impacted soil exists in the area and be protective of the vegetative health and potential habitat of the Dune Sagebrush Lizard.

One note, the coordinates on the OCD portal are incorrect, as stated in the Work Plan: The release was initially reported at the incorrect location but following a review of initial release records, internal documents, and personnel communications, it was confirmed the release is located on the Big Eddy Unit 248H well pad. The majority of the release is located in Unit A, Section 35, Township 19 South, Range 31 East, in Eddy County, New Mexico (32.62087°, -103.83145°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). However, a portion of the release occurred on State Land managed by New Mexico State Land Office (SLO) in Unit D, Section 36, Township 19 South, and Range 31 East.

The following attachments are included as supporting documentation.

Figure 1 Site Location Map (showing the correct location)

Figure 2 **Delineation Soil Sample Locations** 

Figure 3 Vegetation Survey Transects

Table 1 Soil Sample Analytical Results

Photographic Log

If we can provide any additional information, please let us know.

Thank you

### **Colton Brown**

Spill Coordinator

**ExxonMobil Upstream Company** 

3104 E. Greene St. Carlsbad, NM 88220 Cell Phone: 575-988-2390

colton.s.brown@exxonmobil.com

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 459826

### **QUESTIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	459826
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2432147637
Incident Name	NAPP2432147637 BIG EDDY UNIT 249H @ 30-015-40715
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-40715] BIG EDDY UNIT #249H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BIG EDDY UNIT 249H
Date Release Discovered	11/16/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Producing Well   Crude Oil   Released: 10 BBL   Recovered: 0 BBL   Lost: 10 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Pumping unit gas lock and stuffing box failed

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

QUESTIONS, Page 2

Action 459826

QUESTIONS (continue
CODID

QUESTI	ions (continued)
Operator:	OGRID:
XTO ENERGY, INC 6401 Holiday Hill Road	5380 Action Number:
Midland, TX 79707	459826
	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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	reafety 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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releating the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/16/2024

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 459826

**QUESTIONS** (continued)

 Operator:
 OGRID:

 XTO ENERGY, INC
 5380

 6401 Holiday Hill Road
 Action Number:

 Midland, TX 79707
 459826

 Action Type:
 [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	4040	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3399	
GRO+DRO (EPA SW-846 Method 8015M)	2786	
BTEX (EPA SW-846 Method 8021B or 8260B)	53	
Benzene (EPA SW-846 Method 8021B or 8260B)	1	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	11/20/2024	
On what date will (or did) the final sampling or liner inspection occur	04/04/2025	
On what date will (or was) the remediation complete(d)	04/04/2025	
What is the estimated surface area (in square feet) that will be reclaimed	34375	
What is the estimated volume (in cubic yards) that will be reclaimed	3800	
What is the estimated surface area (in square feet) that will be remediated	34375	
What is the estimated volume (in cubic yards) that will be remediated	3800	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 459826

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	459826
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
Yes	
HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
Not answered.	
No	

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

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

Name: Ashley Mcafee I hereby agree and sign off to the above statement Email: ashley.a.mcafee@exxonmobil.com Date: 05/07/2025	Email: ashley.a.mcafee@exxonmobil.com
---	---------------------------------------

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

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

QUESTIONS, Page 5

Action 459826

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	459826
	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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Phone: (505) 629-6116
Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 6

Action 459826

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	459826
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

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Sampling Event Information	
Last sampling notification (C-141N) recorded	457838
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/02/2025
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation 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	30200			
What was the total volume (cubic yards) remediated	3100			
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	30200			
What was the total volume (in cubic yards) reclaimed	2900			
Summarize any additional remediation activities not included by answers (above)	"Excavation activities were conducted at the Site in accordance with the Work Plan to address the multiple releases of crude oil and produced water. The approved February 4, 2025, Work Plan is included in Appendix C. Laboratory analytical results for all final excavation soil samples indicated all COC concentrations were compliant with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. The final excavation backfill is ongoing with material purchased locally and is being recontoured to match pre-existing Site conditions. Excavation of soil has removed impacted soil from the area. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Numbers nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071."			

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: 05/07/2025

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

QUESTIONS, Page 7

Action 459826

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	459826
	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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## State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 459826

### **CONDITIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	459826
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### CONDITIONS

(	Created By	Condition	Condition Date	
	scwells	None	5/20/2025	