



July 9, 2026

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Updated Deferral Request Addendum
PLU 20-8 Brushy Draw 104H
Incident Number nAPP2404750069
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Updated Deferral Request Addendum* for the PLU 20-8 Brushy Draw 104H (Site). This *Updated Deferral Request Addendum* details additional delineation activities completed at the Site, in response to the denial of a previously submitted *Deferral Request* and *Deferral Request Addendum* by the New Mexico Oil Conservation Division (NMOCD). In the most recent denial, NMOCD expressed concern that the vertical delineation of the deferral area was insufficient. Based on the additional delineation sampling activities described below, XTO is requesting deferral of final remediation for Incident Number nAPP2404750069 until the Site is reconstructed, and/or the well pad is abandoned.

BACKGROUND

The Site is located in Unit K, Section 20, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.11247°, -103.90588°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). The Site location is shown in Figure 1.

On February 2, 2024, a pump failure resulted in the release of 52 barrels (bbls) of produced water into a temporary lined containment area and onto the pad surface. A vacuum truck was dispatched and approximately 41 bbls of release fluids were recovered. XTO submitted a Notification of Release (NOR) and an Initial C-141 Application (C-141) on February 16, 2024. The release was assigned Incident Number nAPP2404750069.

Ensolum conducted delineation soil sampling within and around the release extent and analytical results were presented in a *Remediation Work Plan (Work Plan)* submitted to the NMOCD on October 29, 2024. Lithologic Soil Sampling Logs from the delineation soil sampling activities are included in Appendix A for reference. The *Work Plan* proposed excavation of an estimated 375 cubic yards of impacted soil and a confirmation sampling variance at a sampling frequency of 400 square feet for floor confirmation samples and 200 square feet for sidewall confirmation samples. The delineation soil samples and release extent are depicted on Figure 2. The *Work Plan* was approved by the NMOCD on December 4, 2024, with the following conditions of approval:

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The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards 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. All sidewall samples should be taken from the sidewall of the excavation. The Variance Request for 400 ft² floor confirmation sample size is approved. The release area will still need confirmation sidewall samples representing no more than 200 ft². The work will need to occur in 90 days after the report has been reviewed.

The *Work Plan* detailed Site characterization according to 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). The Site characterization results were included in the previously submitted *Deferral Request* report. All Site characterization references are included in Appendix B. Based on the results of the Site characterization, the following NMOCD Table I Closure Criteria applied:

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

As documented in the *Deferral Request*, impacted soil was excavated from the release area as indicated by delineation soil sample laboratory analytical results and in accordance with the approved *Work Plan*. Following removal of impacted soil to the maximum extent practicable (MEP), Ensolum personnel collected 5-point composite soil samples representing no more than 400 square feet from the floor and 200 square feet from the sidewalls of the excavations and release extent (Figure 3). The final excavation extents measured approximately 11,980 square feet. A total of approximately 1,000 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Northern Delaware Basin Landfill (OWL Landfill) in Jal, New Mexico. One confirmation soil sample, CS97, was collected at a depth of 0.5 feet bgs in an area inaccessible due to active production equipment and wellheads. Laboratory analytical results for CS97 indicated TPH concentrations exceeded the Closure Criteria. Lateral delineation of the residual impacted soil was defined by delineation soil samples BH24 -27, SS05, SS06, SW05, CS96, and CS98. Vertical delineation of residual impacted soil was defined by adjacent excavation soil sample FS21 at 3 feet bgs. An estimated area of impacted soil left in place immediately adjacent to or below active production equipment measured approximately 400 square feet and a total of approximately 44 cubic yards of impacted soil remained in place assuming a depth of 3 feet.

The *Deferral Request* was submitted on June 24, 2025, to the NMOCD. On August 1, 2025, NMOCD denied the *Deferral Request* for the following reasons:

The Deferral Request is Denied. Before we can approve a deferral, the spill must be fully delineated. If horizontal delineation samples on pad eventually reach a mechanical barrier, (such as pipeline or battery) sample(s) should be obtained as near as possible on the linear opposite side of said barrier and as close as possible to barrier. All sidewalls must be fully delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release.

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In response to the NMOCD denial to the *Deferral Request*, additional delineation activities were conducted in August 2025 to confirm lateral delineation of the release extent. Nine additional delineation soil samples were collected around the release extent.

The *Deferral Request Addendum* was submitted to the NMOCD on November 25, 2025, presenting the results of the additional delineation activities that occurred in August 2025. On April 10, 2026, NMOCD denied the *Deferral Request Addendum* for the following reasons:

The Deferral Request Addendum is Denied. Before we can approve a deferral, the spill must be fully delineated. The OCD requests that soil sample location CS97 be fully delineated before a deferral request can be approved. Photographs 9 and 10 show there is ample space to complete the vertical delineation.

Following the *Deferral Request Addendum* denial, additional delineation activities to confirm the vertical extent of the requested deferral area in the vicinity of CS97 was warranted.

2026 DELINEATION ACTIVITIES

On May 6 and May 27, 2026, Ensolum personnel returned to the Site to conduct additional delineation activities. One delineation borehole (BH01) was advanced via hand auger and heavy equipment to a depth of 5 feet bgs to assess the vertical extent of the requested deferral area. Discrete delineation soil samples were collected from the borehole at depths ranging from 0.5 feet to 4 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The delineation soil sample location was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation is included in Appendix C that includes the 2026 delineation activities and all previous remediation activities.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil sample BH01, collected at ground surface, indicated TPH concentrations exceeded Closure Criteria. Laboratory analytical results for BH01A, BH01B, and BH01C, collected at depths 2 feet, 3 feet, and 4 feet bgs, respectively, indicated all COCs were in compliance with Closure Criteria, successfully defining the vertical extent of the requested deferral area. The laboratory analytical results are summarized in Table 1 including all previous soil sample laboratory analytical results. The soil sample laboratory analytical reports are included in Appendix D.

DEFERRAL REQUEST

Additional delineation activities were conducted at the Site in response to the April 10, 2026, *Deferral Request Addendum* denial. All soil samples that delineate the requested deferral area are depicted on Figure 4 and are summarized in Table 1. XTO is requesting deferral of final remediation due to the presence of active production pipelines and wellheads, preventing excavation of impacted soil identified in the vicinity of CS97. The impacted soil is limited to the area surrounding active production wellheads, where remediation would require a major facility deconstruction and onsite personnel safety concerns.

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The impacted soil remaining in place is delineated vertically by soil sample BH01A, collected at 2 feet bgs. The soil is laterally defined by soil samples BH24-27, SW05, CS96, and CS98. The estimated area of impacted soil left in place immediately adjacent to active production wellheads measure approximately 400 square feet and a total of approximately 30 cubic yards of impacted soil remain in place. Approximately 3,300 cubic yards waste-containing soil is left in place across an area of 29,600 square feet to be addressed at the time of pad abandonment.

XTO does not believe deferral will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet. Gross impacts were removed during excavation activities and the impacted soil remaining in place is limited in areal and vertical extent.

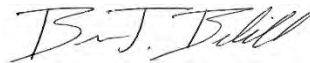
Based on the presence of active production wellheads within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number nAPP2404750069 until final reclamation of the well pad or a major facility deconstruction, whichever comes first.

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



Benjamin J. Belill
Senior Geologist

cc: Robert Woodall, XTO
Richard Kotzur, XTO
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Samples
Figure 3	Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Soil Sample Analytical Results
Appendix A	Lithologic Soil Sampling Logs
Appendix B	Site Characterization Documentation
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Correspondence
Appendix F	Spill Volume Calculation



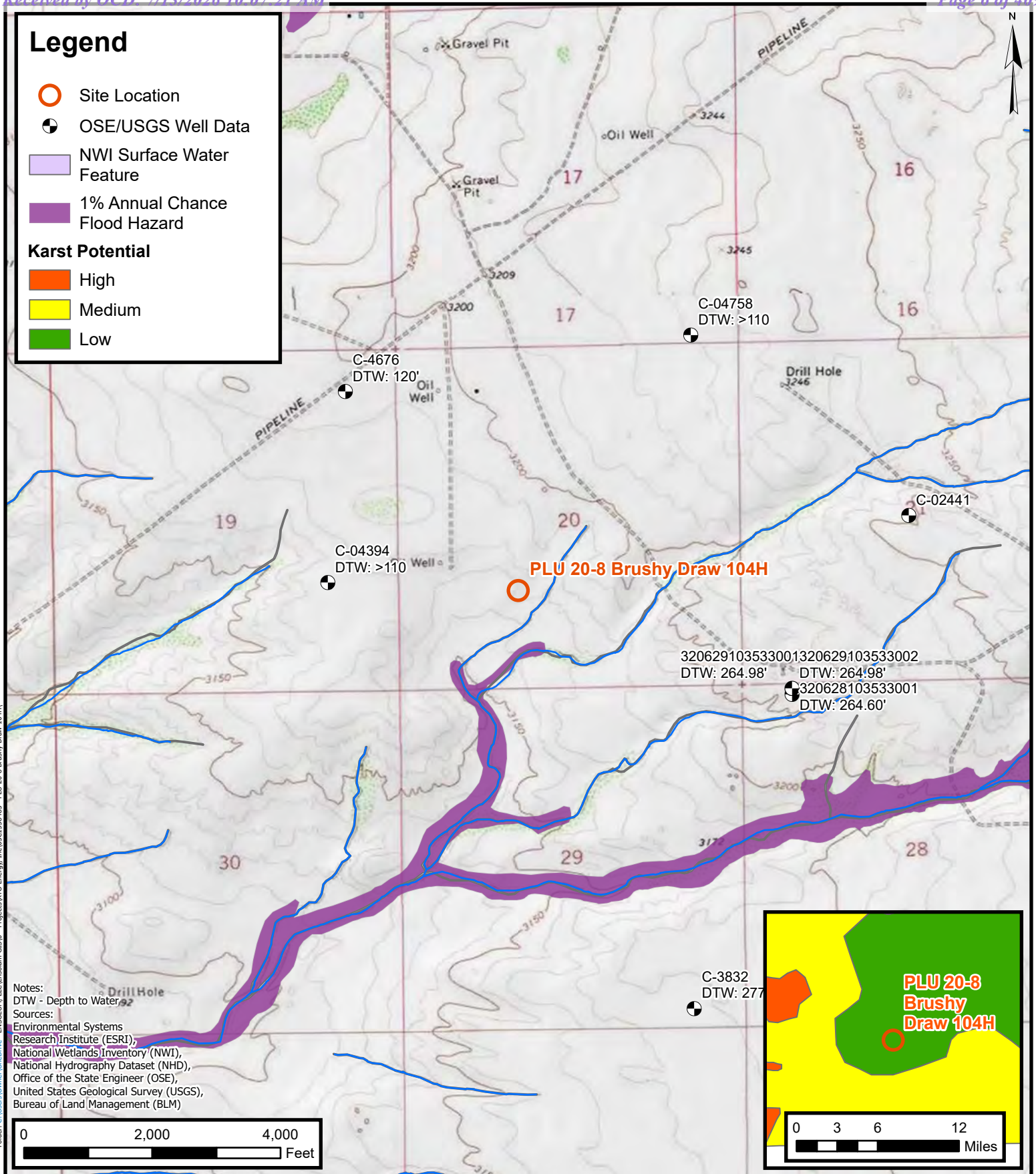
FIGURES

Legend

-  Site Location
-  OSE/USGS Well Data
-  NWI Surface Water Feature
-  1% Annual Chance Flood Hazard

Karst Potential

-  High
-  Medium
-  Low



Site Receptor Map

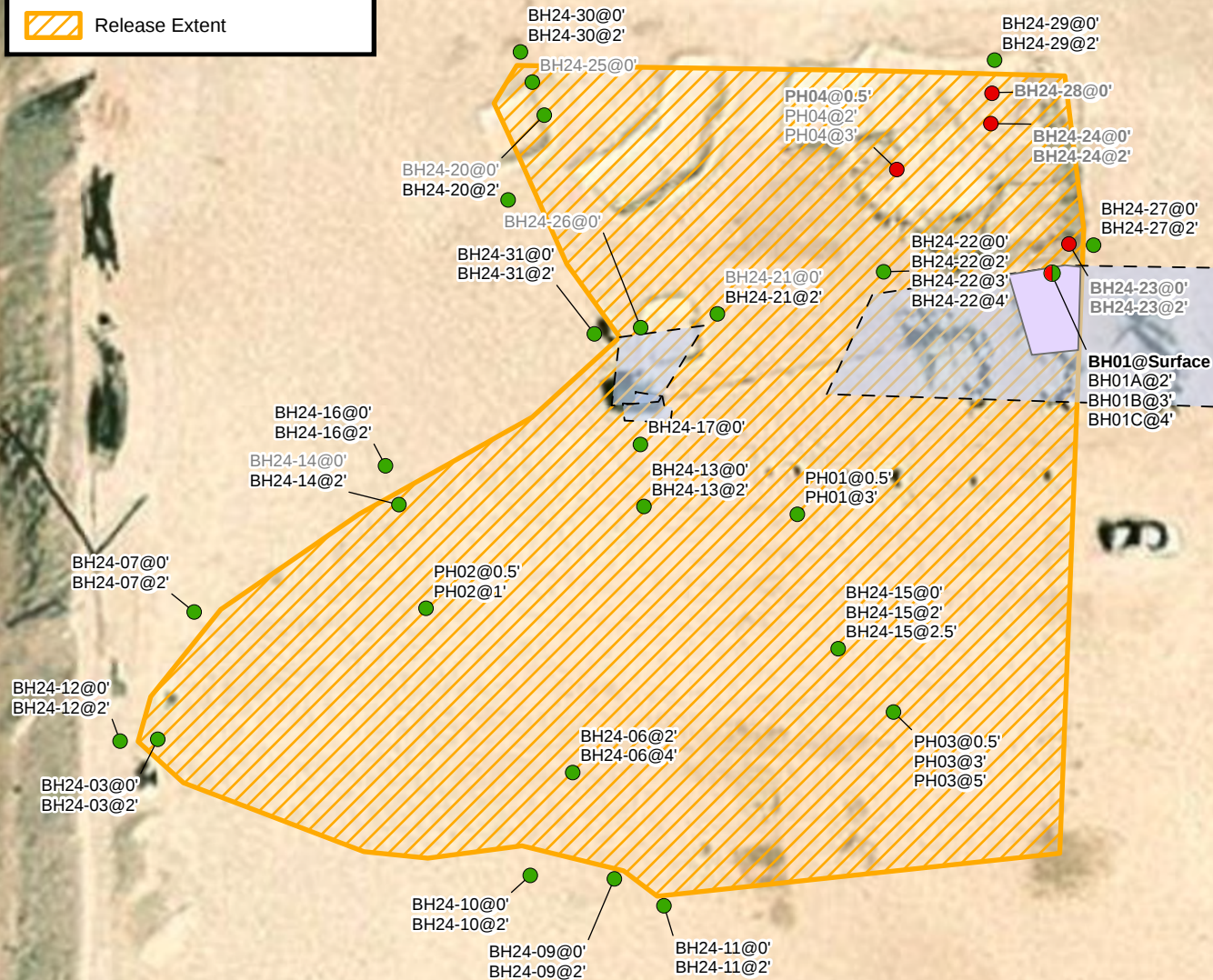
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FIGURE

1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- ● Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Deferral Area
- Production Equipment
- Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.

0 12.5 25 50 75 100
 Feet

Sources: Environmental Systems Research Institute (ESRI)

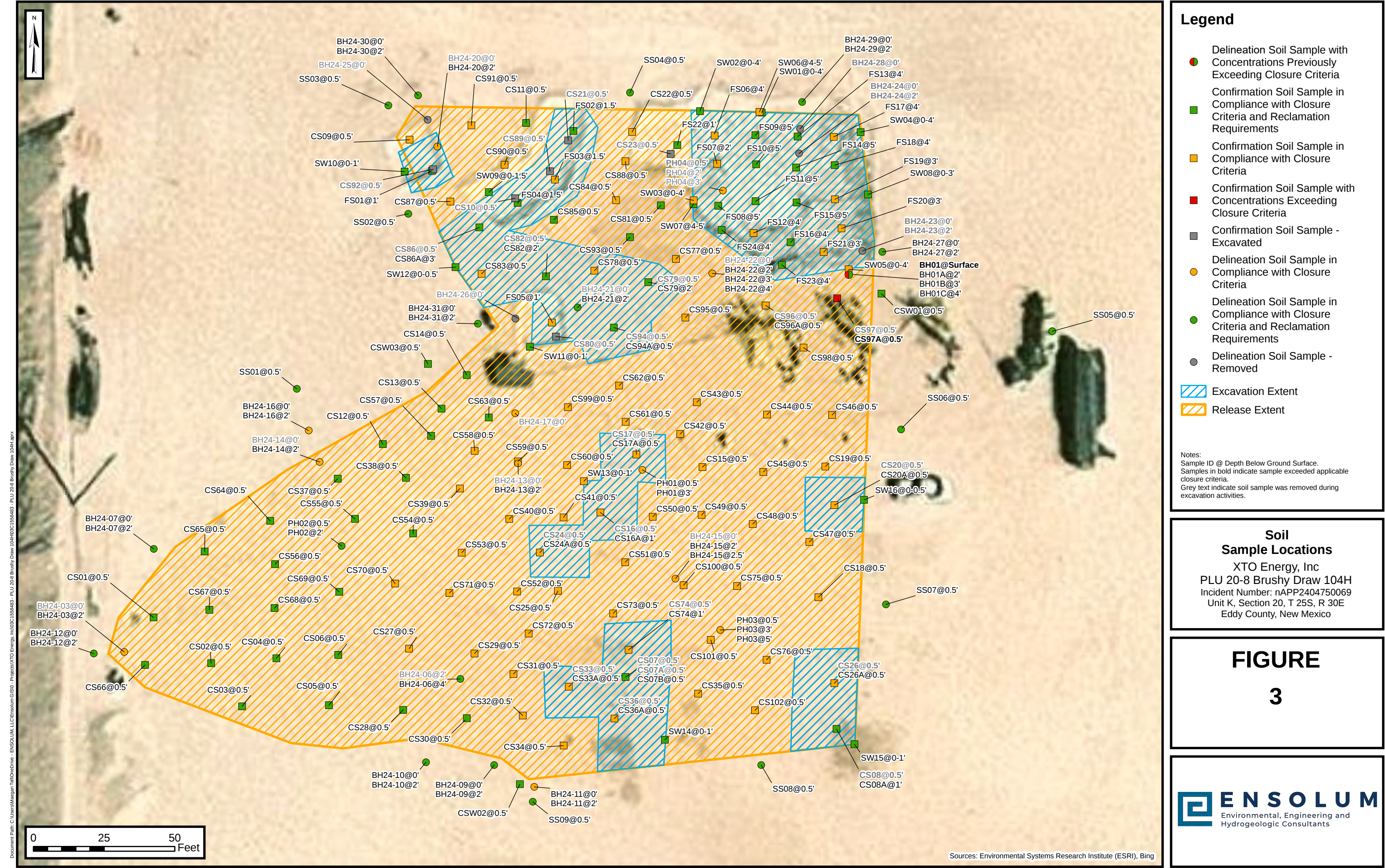
Delineation Soil Sample Locations

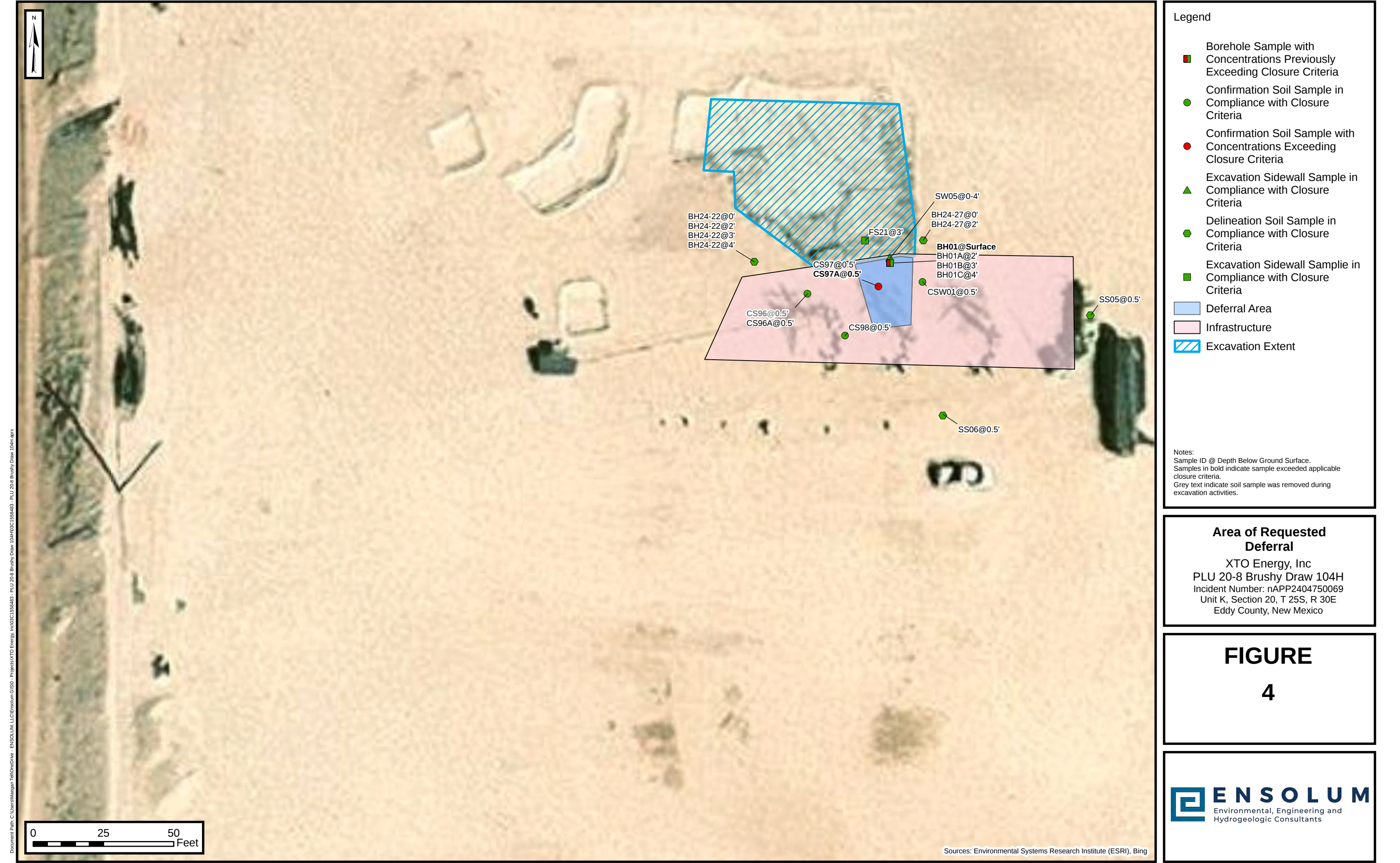
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FIGURE

2









TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 20-8 Brushy Draw 104H
XTO Energy, Inc
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
BH24-06	04/02/2024	2	ND	ND	ND	12.0	ND	12.0	12.0	520
BH24-06	04/02/2024	4	ND	ND	ND	ND	ND	ND	ND	200
BH24-07	04/02/2024	0	ND	ND	ND	11.0	ND	11.0	11.0	250
BH24-07	04/02/2024	2	ND	ND	ND	ND	ND	ND	ND	65.0
BH24-09	04/05/2024	0	ND	ND	ND	ND	ND	ND	ND	120
BH24-09	04/05/2024	2	ND	ND	ND	ND	ND	ND	ND	130
BH24-10	04/05/2024	0	ND	ND	ND	ND	ND	ND	ND	85.0
BH24-10	04/05/2024	2	ND	ND	ND	ND	ND	ND	ND	85.0
BH24-11	05/24/2024	0	ND	ND	ND	11.0	ND	11.0	11.0	1,100
BH24-11	05/24/2024	2	ND	ND	ND	ND	ND	ND	ND	270
BH24-12	05/24/2024	0	ND	ND	ND	ND	ND	ND	ND	140
BH24-12	05/24/2024	2	ND	ND	ND	ND	ND	ND	ND	130
BH24-13	05/24/2024	0	ND	ND	ND	ND	ND	ND	ND	830
BH24-13	05/24/2024	2	ND	ND	ND	14.0	ND	14.0	14.0	370
BH24-14	05/24/2024	0	ND	ND	ND	370	ND	370	370	700
BH24-14	05/24/2024	2	ND	ND	ND	ND	ND	ND	ND	140
BH24-15	05/24/2024	0	ND	ND	ND	13.0	ND	13.0	13.0	9,100
BH24-15	05/24/2024	2	ND	ND	ND	ND	ND	ND	ND	3,200
BH24-15	05/24/2024	2.5	ND	ND	ND	ND	ND	ND	ND	410
BH24-16	05/24/2024	0	ND	ND	ND	12.0	ND	12.0	12.0	740
BH24-16	05/25/2024	2	ND	ND	ND	ND	ND	ND	ND	140
BH24-17	05/24/2024	0	ND	ND	ND	270	57.0	270	327	820
BH24-20	05/24/2024	0	ND	ND	ND	65.0	ND	65.0	65.0	1,800
BH24-20	05/24/2024	2	ND	ND	ND	ND	ND	ND	ND	160
BH24-21	05/24/2024	0	ND	ND	ND	81.0	ND	81.0	81.0	210
BH24-21	05/24/2024	2	ND	ND	ND	13.0	ND	13.0	13.0	480
BH24-22	05/24/2024	0	ND	ND	ND	280	ND	280	280	420
BH24-22	05/24/2024	2	ND	ND	ND	ND	ND	ND	ND	150
BH24-22	05/25/2024	3	ND	ND	ND	ND	ND	ND	ND	ND
BH24-22	05/25/2024	4	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 20-8 Brushy Draw 104H
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
BH24-23	05/24/2024	0	ND	0.340	22.0	19,000	ND	19,022	19,022	420
BH24-23	05/24/2024	2	ND	ND	ND	1,300	ND	1,300	1,300	650
BH24-24	05/24/2024	0	ND	0.980	46.0	16,000	ND	16,046	16,046	470
BH24-24	05/24/2024	2	ND	0.810	46.0	11,000	ND	11,046	11,046	ND
BH24-25	05/24/2024	0	ND	ND	ND	120	ND	120	120	5,700
BH24-26	05/24/2024	0	ND	ND	ND	250	220	250	470	1,400
BH24-27	05/25/2024	0	ND	ND	ND	63.0	ND	63.0	63.0	180
BH24-27	05/25/2024	2	ND	ND	ND	ND	ND	ND	ND	210
BH24-28	05/25/2024	0	ND	ND	ND	6,400	ND	6,400	6,400	1,400
BH24-29	05/26/2024	0	ND	ND	ND	ND	ND	ND	ND	130
BH24-29	05/26/2024	2	ND	ND	ND	ND	ND	ND	ND	ND
BH24-30	05/26/2024	0	ND	ND	ND	ND	ND	ND	ND	340
BH24-30	05/26/2024	2	ND	ND	ND	ND	ND	ND	ND	120
BH24-31	05/26/2024	0	ND	ND	ND	ND	ND	ND	ND	170
BH24-31	05/26/2024	2	ND	ND	ND	ND	ND	ND	ND	160
BH01	05/06/2026	Surface	<0.050	<0.300	82.5	6,870	649	6,953	7,602	928
BH01A	05/06/2026	2	<0.050	<0.300	<10.0	226	13.4	226	239	432
BH01B	05/06/2026	3	<0.050	<0.300	<10.0	306	25.6	306	332	272
BH01C	05/27/2026	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
PH01	10/16/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,880
PH01	10/16/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
PH02	10/16/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
PH02	10/16/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
PH03	10/16/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,440
PH03	10/16/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,240
PH03	10/16/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH04	10/17/2024	0.5	<0.050	<0.300	<10.0	1,970	<10.0	1,970	1,970	2,920
PH04	10/17/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH04	10/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS01	08/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS02	08/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS03	08/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SS04	08/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
SS05	08/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS06	08/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SS07	08/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SS08	08/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SS09	08/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
Confirmation Soil Samples										
CS01	01/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS02	01/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS03	01/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS04	01/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS05	01/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
CS06	01/02/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
CS07	01/02/2025	0.5	<0.050	<0.300	16.7	1,380	562	1,397	1,959	2,160
CS07A	02/25/2025	0.5	<0.050	<0.300	25.1	1,290	<10.0	1,315	1,315	592
CS07B	03/13/2025	2	<0.050	<0.300	<10.0	31.1	<10.0	31.1	31.1	480
CS08	01/02/2025	0.5	<0.050	<0.300	48.6	4,400	1,500	4,449	5,949	1,330
CS08A	02/25/2025	1	<0.050	<0.300	25.1	<10.0	<10.0	<10.0	<10.0	496
CS09	01/03/2025	0.5	<0.050	<0.300	<10.0	34.4	<10.0	34.4	34.4	704
CS10	01/03/2025	0.5	<0.050	0.933	125	3,820	<10.0	3,945	3,945	800
CS11	01/03/2025	0.5	<0.050	<0.300	<10.0	60.7	<10.0	60.7	60.7	512
CS12	01/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS13	01/03/2025	0.5	<0.050	<0.300	<10.0	13.9	<10.0	13.9	13.9	288
CS14	01/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
CS15	01/03/2025	0.5	<0.050	<0.300	<10.0	297	<10.0	297	297	3,120
CS16	01/03/2025	0.5	<0.050	<0.300	48.3	4,680	1,340	4,728	6,068	1,390
CS16A	02/25/2025	1	<0.050	<0.300	<10.0	623	104	623	727	1,840
CS17	01/03/2025	0.5	<0.050	<0.300	10.8	1,010	841	1,021	1,862	1,740
CS17A	02/25/2025	0.5	<0.050	<0.300	<10.0	452	<10.0	452	452	1,330
CS18	01/03/2025	0.5	<0.050	<0.300	<10.0	166	<10.0	166	166	2,480
CS19	01/03/2025	0.5	<0.050	<0.300	<10.0	923	1,210	923	2,133	1,150

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 20-8 Brushy Draw 104H
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
CS20	01/03/2025	0.5	<0.050	<0.300	16.5	1,710	508	1,727	2,235	1,680
CS20A	02/25/2025	0.5	<0.050	<0.300	<10.0	232	287	232	519	832
CS21	01/03/2025	0.5	<0.050	<0.300	113	5,550	<10.0	5,663	5,663	1,790
CS22	01/03/2025	0.5	<0.050	<0.300	<10.0	225	<10.0	225	225	368
CS23	01/03/2025	0.5	<0.050	<0.300	17.2	1,460	<10.0	1,477	1,477	1,580
CS24	01/03/2025	0.5	<0.050	<0.300	<10.0	1,340	609	1,340	1,949	2,000
CS24A	02/25/2025	0.5	<0.050	<0.300	<10.0	19.9	<10.0	19.9	19.9	1,880
CS25	01/03/2025	0.5	<0.050	<0.300	<10.0	763	53.3	763	816	1,060
CS26	01/03/2025	0.5	<0.050	<0.300	<10.0	952	2,190	952	3,142	1,420
CS26A	02/25/2025	0.5	<0.050	<0.300	<10.0	592	667	592	1,259	896
CS27	01/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
CS28	01/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
CS29	01/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
CS30	01/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
CS31	01/06/2025	0.5	<0.050	<0.300	<10.0	37.4	<10.0	37.4	37.4	1,720
CS32	01/06/2025	0.5	<0.050	<0.300	<10.0	11.8	<10.0	11.8	11.8	1,890
CS33	01/06/2025	0.5	<0.050	<0.300	<10.0	1,260	1,220	1,260	2,480	3,440
CS33A	02/25/2025	0.5	<0.050	<0.300	<10.0	192	187	192	379	544
CS34	01/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,440
CS35	01/06/2025	0.5	<0.050	<0.300	<10.0	592	481	592	1,073	1,300
CS36	01/06/2025	0.5	<0.050	<0.300	10.3	1,320	1,440	1,330	2,770	2,200
CS36A	02/25/2025	0.5	<0.050	<0.300	<10.0	468	458	468	926	1,020
CS37	01/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
CS38	01/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
CS39	01/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	720
CS40	01/21/2025	0.5	<0.050	<0.300	<10.0	22.7	<10.0	22.7	22.7	1,680
CS41	01/21/2025	0.5	<0.050	<0.300	<10.0	18.1	14.2	18.1	32.3	1,090
CS42	01/21/2025	0.5	<0.050	<0.300	<10.0	66.7	<10.0	66.7	66.7	3,520
CS43	01/21/2025	0.5	<0.050	<0.300	<10.0	283	16.4	283	299	4,080
CS44	01/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,160
CS45	01/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,480
CS46	01/21/2025	0.5	<0.050	<0.300	<10.0	537	647	537	1,184	1,760

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 20-8 Brushy Draw 104H
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
CS47	01/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,640
CS48	01/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,440
CS49	01/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,400
CS50	01/21/2025	0.5	<0.050	<0.300	<10.0	82.8	<10.0	82.8	82.8	3,440
CS51	01/21/2025	0.5	<0.050	<0.300	<10.0	85.7	<10.0	85.7	85.7	1,280
CS52	01/21/2025	0.5	<0.050	<0.300	<10.0	83.0	45.8	83.0	129	1,920
CS53	01/21/2025	0.5	<0.050	<0.300	<10.0	184	<10.0	184	184	1,280
CS54	01/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
CS55	01/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
CS56	01/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
CS57	01/22/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS58	01/22/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656
CS59	01/22/2025	0.5	<0.050	<0.300	<10.0	23.3	<10.0	23.3	23.3	1,650
CS60	01/22/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,160
CS61	01/22/2025	0.5	<0.050	<0.300	<10.0	243	<10.0	243	243	2,600
CS62	01/22/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,470
CS63	01/22/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
CS64	01/22/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
CS65	01/22/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS66	01/22/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS67	01/22/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS68	01/22/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
CS69	01/22/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
CS70	01/22/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656
CS71	01/22/2025	0.5	<0.050	<0.300	<10.0	846	<10.0	846	846	880
CS72	01/22/2025	0.5	<0.050	<0.300	<10.0	31.2	<10.0	31.2	31.2	2,080
CS73	01/22/2025	0.5	<0.050	<0.300	<10.0	384	536	384	920	1,790
CS74	01/22/2025	0.5	<0.050	<0.300	32.9	2,770	529	2,803	3,332	4,320
CS74A	02/25/2025	1	<0.050	<0.300	<10.0	919	120	919	1,039	2,600
CS75	01/22/2025	0.5	<0.050	<0.300	<10.0	11.2	<10.0	11.2	11.2	7,040
CS76	01/22/2025	0.5	<0.050	<0.300	<10.0	12.6	<10.0	12.6	12.6	6,800
CS77	01/22/2025	0.5	<0.050	<0.300	<10.0	307	<10.0	307	307	1,100

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 20-8 Brushy Draw 104H
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
CS78	02/24/2025	0.5	<0.050	<0.300	<10.0	217	<10.0	217	217	304
CS79	02/24/2025	0.5	<0.050	<0.300	<10.0	1,460	38.8	1,460	1,499	2,880
CS79A	03/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS80	01/22/2025	0.5	<0.050	<0.300	<10.0	1,120	<10.0	1,120	1,120	736
CS81	02/24/2025	0.5	<0.050	<0.300	<10.0	11.9	<10.0	11.9	11.9	336
CS82	02/24/2025	0.5	<0.050	0.353	29.7	1,190	<10.0	1,220	1,220	1,020
CS82A	03/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
CS83	02/24/2025	0.5	<0.050	<0.300	<10.0	470	<10.0	470	470	448
CS84	01/22/2025	0.5	<0.050	<0.300	<10.0	422	<10.0	422	422	576
CS85	02/24/2025	0.5	<0.050	<0.300	<10.0	26.0	<10.0	26.0	26.0	528
CS86	02/24/2025	0.5	<0.050	<0.300	<10.0	2,100	63.4	2,100	2,163	2,880
CS86A	03/13/2025	3	<0.050	<0.300	<10.0	79.9	<10.0	79.9	79.9	112
CS87	01/22/2025	0.5	<0.050	<0.300	<10.0	429	<10.0	429	429	1,010
CS88	01/22/2025	0.5	<0.050	<0.300	<10.0	388	<10.0	388	388	352
CS89	01/22/2025	0.5	<0.050	<0.300	<10.0	1,350	<10.0	1,350	1,350	1,070
CS90	01/22/2025	0.5	<0.050	<0.300	<10.0	163	<10.0	163	163	752
CS91	01/22/2025	0.5	<0.050	<0.300	<10.0	890	<10.0	890	890	512
CS92	01/22/2025	0.5	<0.050	<0.300	<10.0	1,160	<10.0	1,160	1,160	672
CS93	02/24/2025	0.5	<0.050	<0.300	<10.0	21.4	<10.0	21.4	21.4	352
CS94	02/07/2025	0.5	<0.050	<0.300	12.6	2,700	69.8	2,713	2,782	4,160
CS94A	02/24/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS95	02/07/2025	0.5	<0.050	<0.300	<10.0	167	<10.0	167	167	2,480
CS96	02/24/2025	0.5	<0.050	<0.300	<10.0	4,630	151	4,630	4,781	5,600
CS96A	03/13/2025	0.5	<0.050	<0.300	<10.0	55.2	<10.0	55.2	55.2	4,400
CS97	02/07/2025	0.5	<0.050	<0.300	63.9	8,430	121	8,494	8,615	5,600
CS97A	03/13/2025	0.5	<0.050	<0.300	<10.0	3,070	233	3,070	3,303	9,360
CS98	02/07/2025	0.5	<0.050	<0.300	<10.0	527	54.1	527	581	7,200
CS99	02/07/2025	0.5	<0.050	<0.300	<10.0	38.1	<10.0	38.1	38.1	992
CS100	02/07/2025	0.5	<0.050	<0.300	<10.0	115	<10.0	115	115	8,400
CS101	02/07/2025	0.5	<0.050	<0.300	<10.0	41.8	<10.0	41.8	41.8	10,900
CS102	02/07/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,200

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 20-8 Brushy Draw 104H
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Sidewall Soil Samples										
CSW01	02/10/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
CSW02	02/10/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CSW03	02/10/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
Excavation Soil Samples										
FS01	02/07/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS02	02/10/2025	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS03	02/10/2025	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	944
FS04	02/10/2025	1.5	<0.050	<0.300	<10.0	36.8	<10.0	36.8	36.8	176
FS05	02/10/2025	1	<0.050	<0.300	<10.0	152	<10.0	152	152	256
FS06	02/11/2025	4	<0.050	<0.300	<10.0	103	<10.0	103	103	112
FS07	02/10/2025	2	<0.050	<0.300	<10.0	263	<10.0	263	263	1,920
FS08	02/11/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS09	02/11/2025	5	<0.050	<0.300	<10.0	47.2	<10.0	47.2	47.2	64.0
FS10	02/11/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS11	02/11/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS12	02/11/2025	4	<0.050	<0.300	<10.0	172	<10.0	172	172	32.0
FS13	02/10/2025	4	<0.050	<0.300	<10.0	83.1	<10.0	83.1	83.1	112
FS14	02/11/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS15	02/11/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS16	02/11/2025	4	<0.050	<0.300	<10.0	32.0	<10.0	32.0	32.0	80.0
FS17	02/10/2025	4	<0.050	<0.300	<10.0	750	<10.0	750	750	368
FS18	02/10/2025	4	<0.050	<0.300	<10.0	65.1	<10.0	65.1	65.1	64.0
FS19	02/10/2025	3	<0.050	<0.300	<10.0	205	<10.0	205	205	352
FS20	02/10/2025	3	<0.050	<0.300	<10.0	138	<10.0	138	138	384
FS21	02/10/2025	3	<0.050	<0.300	<10.0	545	<10.0	545	545	352
FS22	02/10/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
FS23	02/11/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS24	02/11/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW01	02/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW02	02/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW03	02/11/2025	0-4	<0.050	<0.300	<10.0	625	<10.0	625	625	768

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 20-8 Brushy Draw 104H
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW04	02/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW05	02/11/2025	0-4	<0.050	<0.300	<10.0	660	<10.0	660	660	1,010
SW06	02/11/2025	4-5	<0.050	<0.300	<10.0	277	<10.0	277	277	368
SW07	02/11/2025	4-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW08	02/12/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
SW09	02/24/2025	0-1.5	<0.050	<0.300	<10.0	27.0	<10.0	27.0	27.0	96.0
SW10	02/24/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW11	02/24/2025	0-1	<0.050	<0.300	<10.0	33.1	<10.0	33.1	33.1	400
SW12	02/25/2025	0-0.5	<0.050	<0.300	<10.0	<10.0	12.2	<10.0	12.2	336
SW13	02/25/2025	0-1	<0.050	<0.300	<10.0	798	298	798	1,096	1,420
SW14	02/25/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW15	02/25/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW16	02/25/2025	0-0.5	<0.050	<0.300	<10.0	<10.0	11.1	<10.0	11.1	336

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.

ND: Not detected at reporting limit

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

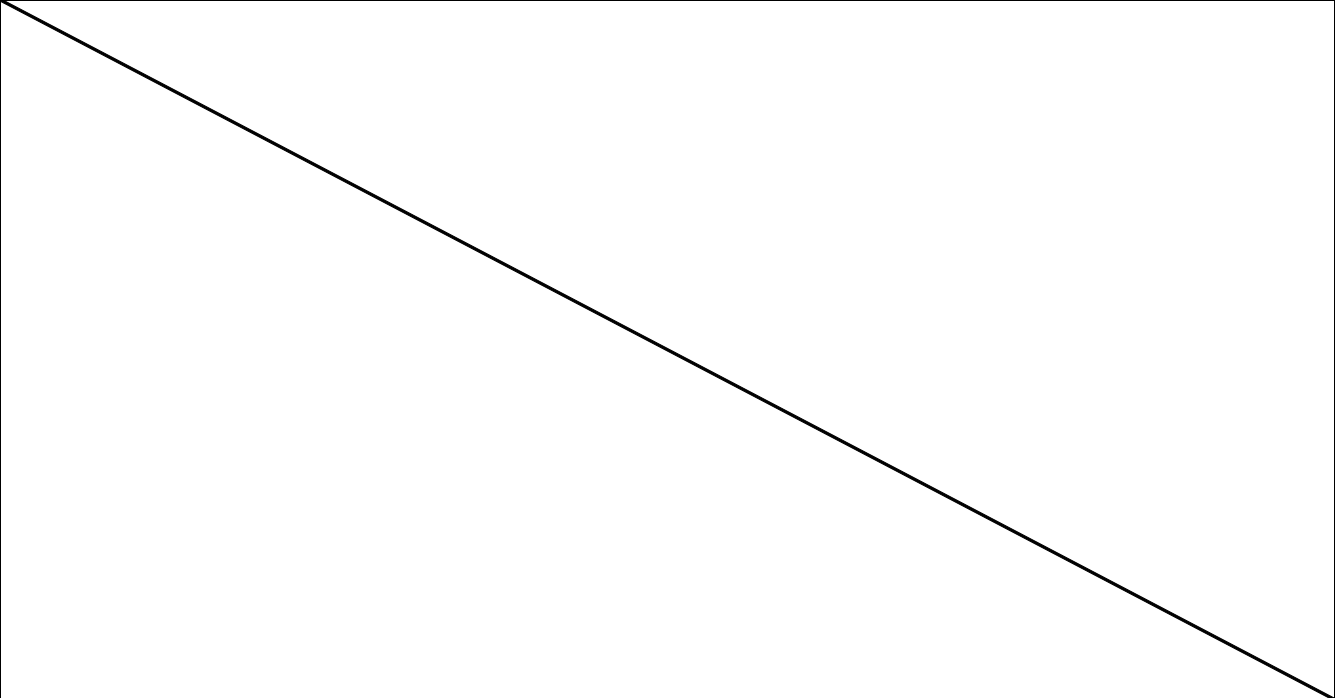
NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Lithologic Soil Sampling Logs

 ENSOLUM		Sample Name: BH01		Date: 5/6&27/2026				
		Site Name: PLU 20-8 Brushy Draw 104H						
		Incident Number: nAPP2404750069						
		Job Number: 03C1558483						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.112514, -103.905722				Logged By: JDB				
				Method: Hand auger				
				Hole Diameter: 4"/24"				
				Total Depth: 5 feet				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1,153	307	Y	BH01	Surface	0	CCHE	(0-1.5') Pale beige poorly graded fine silty sand, trace clay, sm-med gray gravel, with subround rocks, moderate brown staining, moderate odor.
D	1,064	308	Y			1		
D	537	57.9	N	BH01A	2	2	SP-SC	(1.5-2.5') Dark brown poorly graded silty sand with silt, med-lg gravel, some clay, moderate odor.
D	330	114	N	BH01B	3	3	SP-SM	(2.5-3.5') Beige poorly graded silty sand with lg beige and gray gravel, little clay, trace odor, no staining.
						3.5		(@3.5) Pale beige, trace clay. Hand auger refusal.
D	302	1.1	N	BH01C	4	4	CCHE	(3.5-5') Caliche, pale beige, trace clay, no odor.
D	224	1.1	N		5	5		
Total Depth @ 5 feet bgs								
								

								Sample Name: PH01		Date: 10/16/2024	
								Site Name: PLU 20-8 Brushy Draw 104H			
								Incident Number: nAPP2404750069			
								Job Number: 03C1558483			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: DM		Method: Backhoe	
Coordinates: 32.112354, -103.905973								Hole Diameter: 24"		Total Depth: 3 feet	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	3,892	0.5	N	PH01	0.5	0	CCHE	(0-3') CALICHE, white/light brown, fine, with subround rocks, no odor			
D	2,570	0.4	N		1	1		(@1') white color			
D	1,697	0.6	N		2	2					
D	263	0.0	N	PH01	3	3					
Total Depth @ 3 feet bgs											

					Sample Name: PH02		Date: 10/16/2024	
					Site Name: PLU 20-8 Brushy Draw 104H			
					Incident Number: nAPP2404750069			
					Job Number: 03C1558483			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: DM		Method: Backhoe	
Coordinates: 32.112282, -103.906316					Hole Diameter: 24"		Total Depth: 1-foot	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	498	0.8	N	PH02	0.5	0	CCHE	(0-3') CALICHE, white/light brown, fine, with subround rocks, no odor
D	308	0.4	N	PH02	1	1		(@1') white color
Total Depth @ 1-foot bgs								

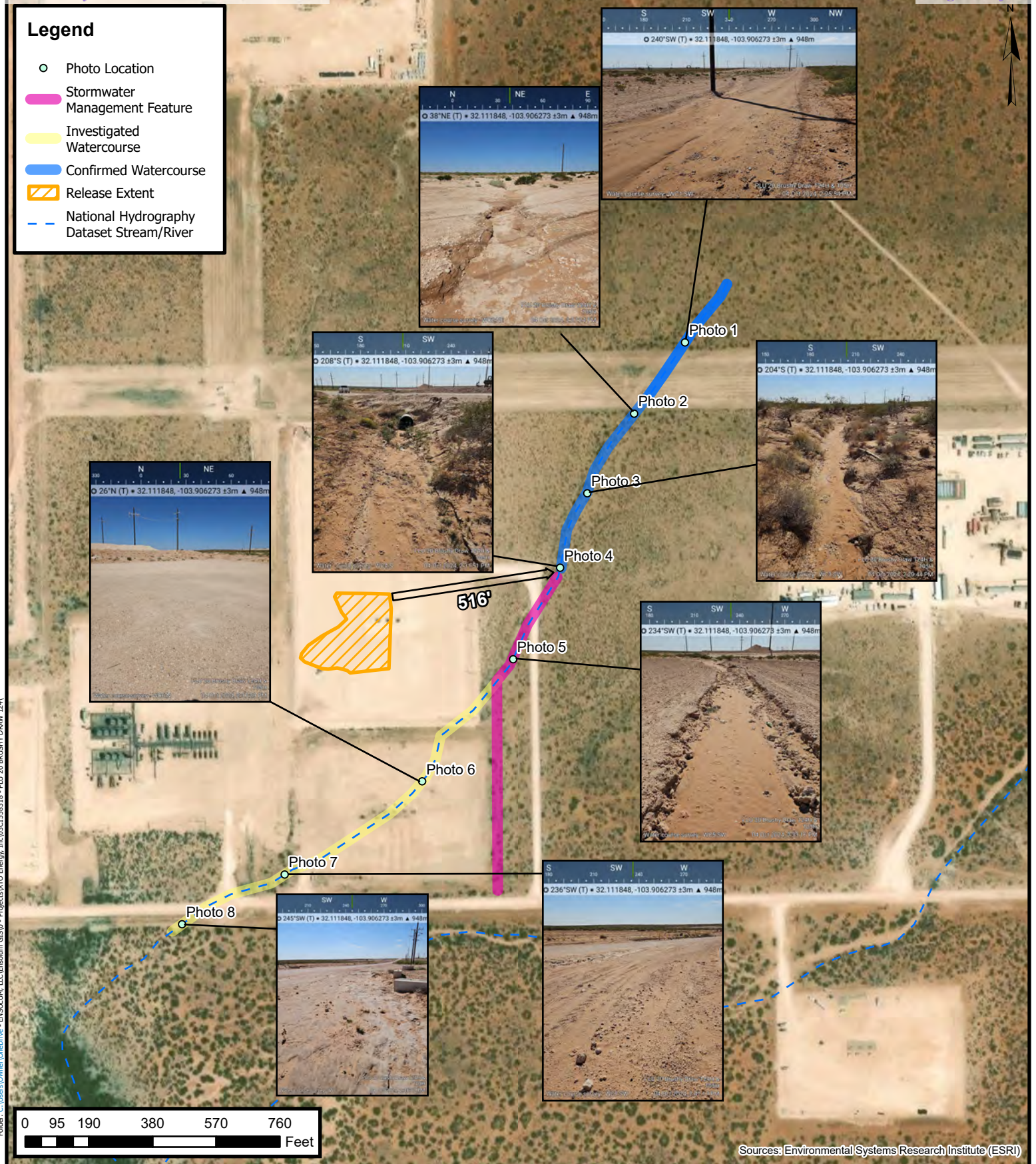
 ENSOLUM		Sample Name: PH03		Date: 10/16/2024				
		Site Name: PLU 20-8 Brushy Draw 104H						
		Incident Number: nAPP2404750069						
		Job Number: 03C1558483						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.112197, -103.905884				Hole Diameter: 24"				
				Method: Backhoe				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-4') CALICHE, white/light brown, fine, with subround rocks, no odor
D	8,753	2.0	N	PH03	0.5			
D	2,910	1.3	N		1	1		
D	2,910	2.3	N		2	2		
D	2,766	0.8	N	PH03	3	3		
D	2,910	0.3	N		4	4	SP	(@4') SAND, brown, fine to medium grained
D	<162	0.2	N	PH03	5	5	CCHE	(@5') CALICHE, white, fine grained
						Total Depth @ 5 feet bgs		

 ENSOLUM		Sample Name: PH04		Date: 10/17/2024				
		Site Name: PLU 20-8 Brushy Draw 104H						
		Incident Number: nAPP2404750069						
		Job Number: 03C1558483						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.112624, -103.905877				Logged By: DM				
				Method: Backhoe				
				Hole Diameter: 24"				
				Total Depth: 3 feet				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-3') CALICHE, white/light brown, fine, with subround rocks, slight odor
D	3,562	5.9	N	PH04	0.5			
D	2,750	13.2	N		1	1		
D	196	1.1	N	PH04	2	2		
D	<162	0.8	N	PH04	3	3		
						Total Depth @ 3 feet bgs		



APPENDIX B

Site Characterization Documentation



ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Watercourse Survey

XTO Energy, Inc
PLU 20-8 Brushy Draw 104H
Incident Number: nAPP2404750069
Unit K, Sec 20, Township 25S, Range 30E
Eddy County, New Mexico

FIGURE
2

		LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MW01		Date: 2/4/2020		
Project Name: ADU 816 PLU 423		RP Number: ZRP-3790		Logged By: FS		Method: SONIC		
Lat/Long:		Field Screening: CHLORIDES, PID		Hole Diameter: 4"/6"		Total Depth: 110'		
Comments: No sampling. Lithology remarks only								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					1			hydrovac excavated (refusal @ 1')
					2			2.5' SAND, dry, well graded,
					3		SW-S	coarse-fine graind,
					4			light brwn - tan, no stain,
					5			no odor
					6			5' few silty sand pockets,
					7		SP	reddish brwn, no plas,
					8			non cohesive
					9			6' SAND, dry, poorly
					10		SW-S	graded, light brwn -
					11			brwn, fine - very fine
					12			7.5' some mod consol ss
					13		SW-S	light brwn - brwn, sub
					14			rounded
					15			10' abundant ss 10-11' color change
					16		SP	12' ss gravel? absent tan-off white
					17			16' abundant ss gravel 13' back t/
					18			(mod consol) light brwn -
					19			19' abundant - some brwn
					20			21.5' sandstone, light, abundant
					21		SW-S	brwn - tan, dry, mod well
					22			consolidated
					23			23' sandstone chunks
					24			absent
					25			



LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Compliance · Engineering · Remediation

Identifier:

MW01

Date:

2/4/2020

Project Name:

ADU-816

PLU 423

RP Number:

2RP-2674

2RP-3790

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: FS

Method: SONIC

Lat/Long:

Field Screening: CHLORIDES, PID.

Hole Diameter:

4 1/8"

Total Depth:

110'

Comments:

rig adding
water

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			Z		26			27.5' SAND, dry, light brown-tan, poorly graded, fine-very fine
D			Z		27			grey - grey
D			Z		28		SP	30' trace light brown-tan caliche pebbles (gravel), rounded
D			Z		29			
D			Z		30			
D			Z		31			31' caliche pebbles absent
D			Z		32			31.5' color change
M			Z		33			light brown - reddish brown
M			Z		34			33-34' abundant ss chunks, mod consol
M			Z		35			35' ss chunks absent
M			Z		36		SW-S	36' some clay pockets, reddish brown, few pebbles, rounded - subrounded, grey - light grey, few laminations w/ clay, caliche, dolomite
M			Z		37			
M			Z		38			
M			Z		39			
M			Z		40			
M			Z		41			
M			Z		42			42.5' clay laminations, trace, reddish brown
M			Z		43			
M			Z		44			44' color change, light brown-tan, SILTY sand
D			Z		45		SP-SM	44.5' some SILTY sand, light brown - tan, no plasticity, non cohesive, trace high plas clay nodules, reddish brown
D			Z		46			
D			Z		47			
D			Z		48			
D			Z		49			48.5' low plas clay band, orange (35-40 mm)
D			Z		50			49.5' faint yellow band, (15-20 mm)

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MW01	Date: 2/4/2020					
		Project Name: PLU 423	RP Number: ZRP-3790					
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: FS	Method: sonic					
Lat/Long:	Field Screening: CHLORIDES, PH	Hole Diameter: 4" / 6"	Total Depth: 110'					
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
U			Z		51		SP	51.5' trace, high plas clay nodules
U			Z		52			
U			Z		53			53-54' some silty ss, poorly consolidated
M			Z		54			
M			Z		55			55.5' color change tan-grey band (30mm)
M			Z		56			
M			Z		57			59.5' SILTY sand, light
M			Z		58			brwn-brwn, moist,
M			Z		59			no plas, non cohesive,
M			Z		60		SM	no stain
U			Z		61			62' more consolidated
M			Z		62			64' dark brwn color
U			Z		63		sm-s	change, silty
M			Z		64			clay nodules
M			Z		65			66' pockets of silty
M			Z		66			clay brwn-green
U			Z		67			68' low plas clay pockets
M			Z		68			some, few low plas
M			Z		69			clay laminations
U			Z		70			
M			Z		71			71' SILTY sand, dry,
U			Z		72			no plas, non cohesive,
M			Z		73			light brwn-tan
U			Z		74		SM	74' trace caliche pebbles,
M			Z		75			light grey-grey

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MWDI	Date: 2/4/2020					
		Project Name: PLU 423	RP Number: 2RP-3790					
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: FS, BB	Method: sonic					
Lat/Long:		Field Screening: CHLORINE, 201	Hole Diameter: 6 1/4"					
			Total Depth: 110'					
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			N		76		SM	76.5' trace low plas clay nodules reddish brown
D			N		77			
D			N		78			82' CLAY, ^{stone} moist, brown-greenish grey, low plasticity, cohesive, no stain, no odor
D			N		79			
D			N		80			mod consolidated
M			N		81			85' SILTY sand, dry, light brown-brown, no plas, non cohesive, no stain, no odor
D			N		82		CL-S	
D			N		83			
D			N		84			
D			N		85		SM	87' color change tan-off white
D			N		86			88' light brown-brown
D			N		87		SM-S	
D			N		88			87' SILTSTONE, dry, w/ clay pockets, low plas
D			N		89			
D			N		90			91' abundant clay pockets
D			N		91			
D			N		92			94.5' band yellow low plas clay
D			N		93			
D			N		94		SM	
M			N		95		CH	end @ 95' 2/4/2020
M			N		96			2/5/20
M			N		97			95'-101' CLAY, moist, brown-dark brown, high plasticity, cohesive, some tan clay laminations, no stain, no odor.
D			N		98			
M			N		99			95'-96' tan fine grain sandstone stringer.
M			N		100			

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MWD1	Date: 2/5/2020					
		Project Name: PLU 423	RP Number: 2RP-3790					
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening: CHLORIDES, PID:	Logged By: BP Hole Diameter: 6" / 4" Method: Sonic Total Depth: 110'					
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			~		101		CH SP-5	101' - 105' SANDSTONE, tan - light brown, dry, moderately consolidated, calcareous cemented, poorly graded, no stain, no odor.
D			~		102			
D			~		103			
D			~		104			
~			~		105			
~			~		106		CH	105' - 110' CLAY, moist, dark brown - brown, high plasticity, cohesive, fine tan sand laminations, no stain, no odor.
D			~		107			107' - 109' tan - light brown well consolidated fine grain sandstone stringer.
D			~		108			
D			~		109			
~			~		110			
					111		TD @ 110'	
					112			TD @ 110'
					113			
					114			
					115			
					116			
					117			
					118			
					119			
					120			
					121			
					122			
					123			
					124			
					125			



Appendix C

Photographic Log



Photographic Log

XTO Energy, Inc
PLU 20-8 Brushy Draw 104H
nAPP24047500069



Photograph: 1 Date: 01/22/2025
Description: Composite sampling; area of CS83
View: East



Photograph: 2 Date: 02/07/2025
Description: Excavation activities; area of FS01
View: South



Photograph: 3 Date: 02/10/2025
Description: Excavation activities; area of FS07
View: Southeast



Photograph: 4 Date: 02/11/2025
Description: Excavation activities; area of FS07
View: Southeast

**Photographic Log**

XTO Energy, Inc
 PLU 20-8 Brushy Draw 104H
 nAPP24047500069



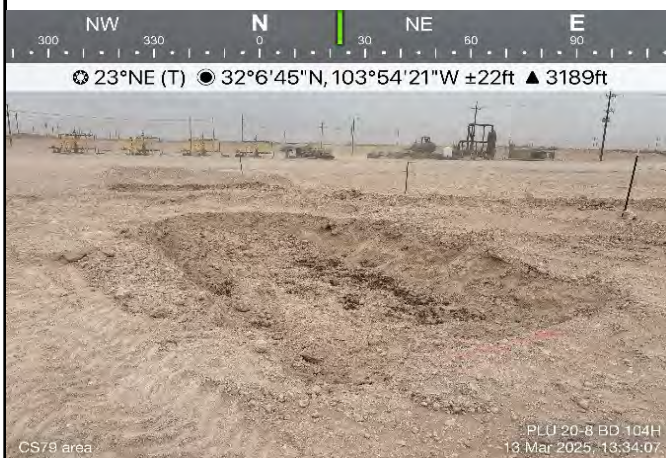
Photograph: 5 Date: 02/12/2025
 Description: Excavation activities; area of FS10
 View: South



Photograph: 6 Date: 02/24/2025
 Description: Excavation activities; area of CS22
 View: East



Photograph: 7 Date: 02/25/2025
 Description: Excavation activities; area of CS16
 View: South

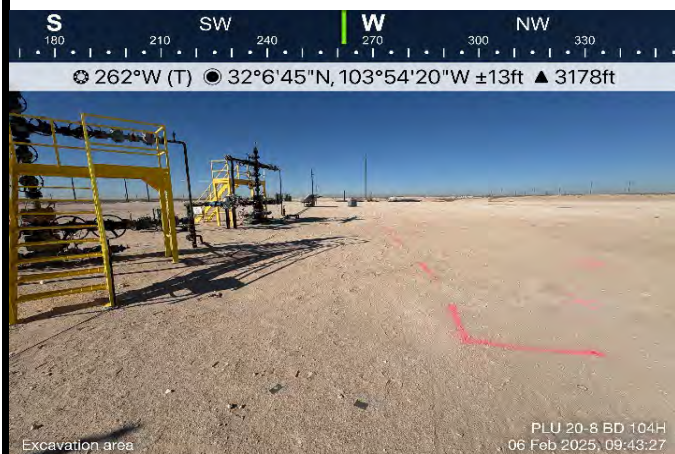


Photograph: 8 Date: 03/13/2025
 Description: Excavation activities; area of CS26
 View: Northeast



Photographic Log

XTO Energy, Inc
PLU 20-8 Brushy Draw 104H
nAPP24047500069



Photograph: 9 Date: 02/6/2025
Description: Area of requested deferral; CS97
View: West



Photograph: 10 Date: 03/13/2025
Description: Area of requested deferral; CS97
View: East



Photograph: 11 Date: 3/17/2025
Description: Backfilled excavation
View: East



Photograph: 12 Date: 3/17/2025
Description: Backfilled excavation
View: East

**Photographic Log**

XTO Energy, Inc
 PLU 20-8 Brushy Draw 104H
 nAPP24047500069



Photograph: 13 Date: 8/15/2025
 Description: Delineation activities
 View: Northeast



Photograph: 14 Date: 8/15/2025
 Description: Delineation activities
 View: East



Photograph: 15 Date: 8/15/2025
 Description: Delineation activities
 View: East



Photograph: 16 Date: 8/15/2025
 Description: Delineation activities
 View: North

**Photographic Log**

XTO Energy, Inc
PLU 20-8 Brushy Draw 104H
nAPP24047500069



Photograph: 17 Date: 5/6/2026
Description: Delineation activities, near BH01
View: South



Photograph: 18 Date: 5/27/2026
Description: Delineation activities, near BH01
View: Northeast



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

January 08, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20-8 BRUSHY DRAW 104H

Enclosed are the results of analyses for samples received by the laboratory on 01/06/25 11:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/02/2025
Reported:	01/08/2025	Sampling Type:	Soil
Project Name:	PLU 20-8 BRUSHY DRAW 104H	Sampling Condition:	Cool & Intact
Project Number:	03C1558483	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.112121-103.90622		

Sample ID: CS 01 0.5' (H250030-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3	
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18	
Total BTX	<0.300	0.300	01/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/06/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	199	99.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	179	89.4	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 02 0.5' (H250030-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3	
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18	
Total BTX	<0.300	0.300	01/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/06/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	199	99.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	179	89.4	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 03 0.5' (H250030-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3	
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18	
Total BTX	<0.300	0.300	01/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/06/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	199	99.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	179	89.4	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 04 0.5' (H250030-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3	
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18	
Total BTX	<0.300	0.300	01/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/06/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	199	99.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	179	89.4	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 05 0.5' (H250030-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3	
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18	
Total BTX	<0.300	0.300	01/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/06/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 06 0.5' (H250030-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3	
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18	
Total BTX	<0.300	0.300	01/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/06/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 71.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 07 0.5' (H250030-07)

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	01/06/2025	ND	1.94	97.2	2.00	10.3		
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18		
Total BTEx	<0.300	0.300	01/06/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	01/06/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	16.7	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	1380	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	562	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 08 0.5' (H250030-08)

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	01/06/2025	ND	1.94	97.2	2.00	10.3		
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18		
Total BTEx	<0.300	0.300	01/06/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	01/06/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	48.6	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	4400	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	1500	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 171 % 49.1-148

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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 09 0.5' (H250030-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3		
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18		
Total BTX	<0.300	0.300	01/06/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	01/06/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	34.4	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 10 0.5' (H250030-10)

BTX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/07/2025	ND	1.94	97.2	2.00	10.3	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	8.09	
Ethylbenzene*	0.089	0.050	01/07/2025	ND	2.01	100	2.00	8.05	
Total Xylenes*	0.844	0.150	01/07/2025	ND	6.04	101	6.00	6.18	GC-NC1
Total BTX	0.933	0.300	01/07/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	01/06/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	125	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	3820	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 139 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 11 0.5' (H250030-11)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3	
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18	
Total BTX	<0.300	0.300	01/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/06/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	60.7	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 12 0.5' (H250030-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3		
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18		
Total BTEx	<0.300	0.300	01/06/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/06/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 13 0.5' (H250030-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3		
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18		
Total BTX	<0.300	0.300	01/06/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	01/06/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	13.9	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 14 0.5' (H250030-14)

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	01/06/2025	ND	1.94	97.2	2.00	10.3		
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18		
Total BTEx	<0.300	0.300	01/06/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	01/06/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 15 0.5' (H250030-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3	
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18	
Total BTEX	<0.300	0.300	01/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	01/06/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	297	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 16 0.5' (H250030-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3		
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18		
Total BTEx	<0.300	0.300	01/06/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1390	16.0	01/06/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	48.3	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	4680	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	1340	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 158 % 49.1-148

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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 17 0.5' (H250030-17)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.94	97.2	2.00	10.3	
Toluene*	<0.050	0.050	01/06/2025	ND	1.99	99.3	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.01	100	2.00	8.05	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	6.04	101	6.00	6.18	
Total BTX	<0.300	0.300	01/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1740	16.0	01/06/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.8	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	1010	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	841	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 18 0.5' (H250030-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/06/2025	ND	2.06	103	2.00	8.13		
Toluene*	<0.050	0.050	01/06/2025	ND	2.25	112	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.39	120	2.00	13.7		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	7.27	121	6.00	11.7		
Total BTEX	<0.300	0.300	01/06/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	01/06/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	166	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 19 0.5' (H250030-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	2.06	103	2.00	8.13	
Toluene*	<0.050	0.050	01/06/2025	ND	2.25	112	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.39	120	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	7.27	121	6.00	11.7	
Total BTEX	<0.300	0.300	01/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	01/06/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	923	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	1210	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 20 0.5' (H250030-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	2.06	103	2.00	8.13	
Toluene*	<0.050	0.050	01/06/2025	ND	2.25	112	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.39	120	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	7.27	121	6.00	11.7	
Total BTEX	<0.300	0.300	01/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	01/06/2025	ND	432	108	400	3.64	

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	16.5	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	1710	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	508	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 156 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 21 0.5' (H250030-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/07/2025	ND	2.06	103	2.00	8.13	GC-NC1	
Toluene*	<0.050	0.050	01/07/2025	ND	2.25	112	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.39	120	2.00	13.7		
Total Xylenes*	0.203	0.150	01/07/2025	ND	7.27	121	6.00	11.7		
Total BTEX	<0.300	0.300	01/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1790	16.0	01/06/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	113	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	5550	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 151 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 22 0.5' (H250030-22)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	2.06	103	2.00	8.13	
Toluene*	<0.050	0.050	01/06/2025	ND	2.25	112	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.39	120	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	7.27	121	6.00	11.7	
Total BTX	<0.300	0.300	01/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/06/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	225	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 23 0.5' (H250030-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/06/2025	ND	2.06	103	2.00	8.13		
Toluene*	<0.050	0.050	01/06/2025	ND	2.25	112	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.39	120	2.00	13.7		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	7.27	121	6.00	11.7		
Total BTEX	<0.300	0.300	01/06/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	01/06/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.2	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	1460	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 24 0.5' (H250030-24)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	2.06	103	2.00	8.13	
Toluene*	<0.050	0.050	01/06/2025	ND	2.25	112	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.39	120	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	7.27	121	6.00	11.7	
Total BTEx	<0.300	0.300	01/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	01/06/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	189	94.5	200	2.58	
DRO >C10-C28*	1340	10.0	01/06/2025	ND	177	88.7	200	5.26	
EXT DRO >C28-C36	609	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 25 0.5' (H250030-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/06/2025	ND	2.06	103	2.00	8.13		
Toluene*	<0.050	0.050	01/06/2025	ND	2.25	112	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.39	120	2.00	13.7		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	7.27	121	6.00	11.7		
Total BTEx	<0.300	0.300	01/06/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	01/06/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	207	103	200	0.460	
DRO >C10-C28*	763	10.0	01/06/2025	ND	190	95.1	200	0.885	QM-07
EXT DRO >C28-C36	53.3	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/06/2025
Reported: 01/08/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 26 0.5' (H250030-26)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/06/2025	ND	2.06	103	2.00	8.13		
Toluene*	<0.050	0.050	01/06/2025	ND	2.25	112	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	2.39	120	2.00	13.7		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	7.27	121	6.00	11.7		
Total BTX	<0.300	0.300	01/06/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	01/06/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	207	103	200	0.460	
DRO >C10-C28*	952	10.0	01/06/2025	ND	190	95.1	200	0.885	
EXT DRO >C28-C36	2190	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

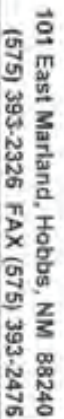
↑ Cardinal cannot accept verbal changes. Please email changes to celcy.koenig@cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

30 W



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

January 13, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20-8 BRUSHY DRAW 104H

Enclosed are the results of analyses for samples received by the laboratory on 01/07/25 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/07/2025
Reported: 01/13/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 27 0.5' (H250047-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.4	2.00	6.65	QM-07
Toluene*	<0.050	0.050	01/08/2025	ND	1.75	87.4	2.00	8.34	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.79	89.4	2.00	8.14	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.36	89.4	6.00	8.43	
Total BTX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	01/08/2025	ND	432	108	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	217	108	200	5.68	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	198	98.8	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/07/2025
Reported: 01/13/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 28 0.5' (H250047-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.4	2.00	6.65		
Toluene*	<0.050	0.050	01/08/2025	ND	1.75	87.4	2.00	8.34		
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.79	89.4	2.00	8.14		
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.36	89.4	6.00	8.43		
Total BTX	<0.300	0.300	01/08/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	01/08/2025	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	01/08/2025	ND	217	108	200	5.68	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	198	98.8	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/07/2025
Reported: 01/13/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 29 0.5' (H250047-03)

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	01/08/2025	ND	1.63	81.4	2.00	6.65		
Toluene*	<0.050	0.050	01/08/2025	ND	1.75	87.4	2.00	8.34		
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.79	89.4	2.00	8.14		
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.36	89.4	6.00	8.43		
Total BTEx	<0.300	0.300	01/08/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	01/08/2025	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	01/08/2025	ND	217	108	200	5.68	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	198	98.8	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/07/2025
Reported: 01/13/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 30 0.5' (H250047-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.4	2.00	6.65	
Toluene*	<0.050	0.050	01/08/2025	ND	1.75	87.4	2.00	8.34	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.79	89.4	2.00	8.14	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.36	89.4	6.00	8.43	
Total BTX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/08/2025	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	01/08/2025	ND	217	108	200	5.68	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	198	98.8	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/07/2025
Reported: 01/13/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 31 0.5' (H250047-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.4	2.00	6.65		
Toluene*	<0.050	0.050	01/08/2025	ND	1.75	87.4	2.00	8.34		
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.79	89.4	2.00	8.14		
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.36	89.4	6.00	8.43		
Total BTX	<0.300	0.300	01/08/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	01/08/2025	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	01/08/2025	ND	217	108	200	5.68	
DRO >C10-C28*	37.4	10.0	01/08/2025	ND	198	98.8	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/07/2025
Reported: 01/13/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 32 0.5' (H250047-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.4	2.00	6.65		
Toluene*	<0.050	0.050	01/08/2025	ND	1.75	87.4	2.00	8.34		
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.79	89.4	2.00	8.14		
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.36	89.4	6.00	8.43		
Total BTX	<0.300	0.300	01/08/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1890	16.0	01/08/2025	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	01/08/2025	ND	217	108	200	5.68	
DRO >C10-C28*	11.8	10.0	01/08/2025	ND	198	98.8	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/07/2025
Reported: 01/13/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 33 0.5' (H250047-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.4	2.00	6.65		
Toluene*	<0.050	0.050	01/08/2025	ND	1.75	87.4	2.00	8.34		
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.79	89.4	2.00	8.14		
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.36	89.4	6.00	8.43		
Total BTX	<0.300	0.300	01/08/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	01/08/2025	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	01/08/2025	ND	217	108	200	5.68	
DRO >C10-C28*	1260	10.0	01/08/2025	ND	198	98.8	200	8.20	
EXT DRO >C28-C36	1220	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/07/2025
Reported: 01/13/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 34 0.5' (H250047-08)

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	01/08/2025	ND	1.63	81.4	2.00	6.65		
Toluene*	<0.050	0.050	01/08/2025	ND	1.75	87.4	2.00	8.34		
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.79	89.4	2.00	8.14		
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.36	89.4	6.00	8.43		
Total BTEx	<0.300	0.300	01/08/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	01/08/2025	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	01/08/2025	ND	217	108	200	5.68	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	198	98.8	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/07/2025
Reported: 01/13/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 35 0.5' (H250047-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.4	2.00	6.65		
Toluene*	<0.050	0.050	01/08/2025	ND	1.75	87.4	2.00	8.34		
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.79	89.4	2.00	8.14		
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.36	89.4	6.00	8.43		
Total BTX	<0.300	0.300	01/08/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	01/08/2025	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	01/08/2025	ND	217	108	200	5.68	
DRO >C10-C28*	592	10.0	01/08/2025	ND	198	98.8	200	8.20	
EXT DRO >C28-C36	481	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/07/2025
Reported: 01/13/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 36 0.5' (H250047-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.4	2.00	6.65	
Toluene*	<0.050	0.050	01/08/2025	ND	1.75	87.4	2.00	8.34	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.79	89.4	2.00	8.14	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.36	89.4	6.00	8.43	
Total BTX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	01/08/2025	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*	10.3	10.0	01/08/2025	ND	217	108	200	5.68	
DRO >C10-C28*	1320	10.0	01/08/2025	ND	198	98.8	200	8.20	
EXT DRO >C28-C36	1440	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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

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

Celey D. Keene, Lab Director/Quality Manager



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

January 27, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20-8 BRUSHY DRAW 104H

Enclosed are the results of analyses for samples received by the laboratory on 01/23/25 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 37 0.5' (H250405-01)

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	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 38 0.5' (H250405-02)

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	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 39 0.5' (H250405-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.82	91.2	2.00	7.25	
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42	
Total BTX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 40 0.5' (H250405-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	22.7	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 41 0.5' (H250405-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.82	91.2	2.00	7.25	
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42	
Total BTX	<0.300	0.300	01/27/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	18.1	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	14.2	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 42 0.5' (H250405-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.82	91.2	2.00	7.25	
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42	
Total BTX	<0.300	0.300	01/27/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	66.7	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 43 0.5' (H250405-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	283	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	16.4	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 44 0.5' (H250405-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 45 0.5' (H250405-09)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.82	91.2	2.00	7.25	
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42	
Total BTX	<0.300	0.300	01/27/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 46 0.5' (H250405-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	537	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	647	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 47 0.5' (H250405-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 48 0.5' (H250405-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 49 0.5' (H250405-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.12	106	2.00	0.750		
Toluene*	<0.050	0.050	01/27/2025	ND	2.28	114	2.00	2.19		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.52	126	2.00	3.13		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.76	129	6.00	2.61		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 50 0.5' (H250405-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.12	106	2.00	0.750		
Toluene*	<0.050	0.050	01/27/2025	ND	2.28	114	2.00	2.19		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.52	126	2.00	3.13		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.76	129	6.00	2.61		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	01/24/2025	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	01/24/2025	ND	198	99.0	200	1.15	
DRO >C10-C28*	82.8	10.0	01/24/2025	ND	208	104	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 51 0.5' (H250405-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.12	106	2.00	0.750		
Toluene*	<0.050	0.050	01/27/2025	ND	2.28	114	2.00	2.19		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.52	126	2.00	3.13		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.76	129	6.00	2.61		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	85.7	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 52 0.5' (H250405-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.12	106	2.00	0.750		
Toluene*	<0.050	0.050	01/27/2025	ND	2.28	114	2.00	2.19		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.52	126	2.00	3.13		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.76	129	6.00	2.61		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	83.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	45.8	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 53 0.5' (H250405-17)

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	01/27/2025	ND	2.12	106	2.00	0.750		
Toluene*	<0.050	0.050	01/27/2025	ND	2.28	114	2.00	2.19		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.52	126	2.00	3.13		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.76	129	6.00	2.61		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	184	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 54 0.5' (H250405-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.12	106	2.00	0.750		
Toluene*	<0.050	0.050	01/27/2025	ND	2.28	114	2.00	2.19		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.52	126	2.00	3.13		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.76	129	6.00	2.61		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 55 0.5' (H250405-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.12	106	2.00	0.750		
Toluene*	<0.050	0.050	01/27/2025	ND	2.28	114	2.00	2.19		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.52	126	2.00	3.13		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.76	129	6.00	2.61		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 56 0.5' (H250405-20)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.12	106	2.00	0.750		
Toluene*	<0.050	0.050	01/27/2025	ND	2.28	114	2.00	2.19		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.52	126	2.00	3.13		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.76	129	6.00	2.61		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Celey D. Keene, Lab Director/Quality Manager



1 of 2

FORM-005-R2 3.2 10/07/2011

† Cardinal cannot accept verbal changes. Please email changes to celsy.keene@cardinalabbey.org



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

208-2

Company Name: Ensolum, LLC

Project Manager: Terry Hillard

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: 575 937 3906 Fax #:

Project #: 03-1558783 Project Owner: XTO

Project Name: PLU 22-8 Bldg Draw 104H

Project Location: 32.112121, -103.706322

Sampler Name: Joshua Boxley

BILL TO

P.O. #:

Company: XTO Energy Inc

Attn: Colton Brown

Address: 3104 E Green St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST					
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE			ICE / COOL	OTHER	Chlorides	TPH	BTEX	
HE50405	CS47	0.5	C	1	X														
	CS48	0.5	C	1	X														
	CS49	0.5	C	1	X														
	CS50	0.5	C	1	X														
	CS51	0.5	C	1	X														
	CS52	0.5	C	1	X														
	CS53	0.5	C	1	X														
	CS54	0.5	C	1	X														
	CS55	0.5	C	1	X														
	CS56	0.5	C	1	X														

PLEASE NOTE: Laboratory and Diagnostic Services are provided on a contract basis. Payment for the amount paid by the client for the

services, including those for equipment and any other material and/or services, shall be provided by the client within 30 days after completion of the analysis.

Services for the analysis of samples for the detection of contamination, including but not limited to, bacteria, heavy metals, and other substances, shall be provided by the client within 30 days after completion of the analysis.

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

January 27, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20-8 BRUSHY DRAW 104H

Enclosed are the results of analyses for samples received by the laboratory on 01/23/25 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/27/2025	Sampling Type:	Soil
Project Name:	PLU 20-8 BRUSHY DRAW 104H	Sampling Condition:	Cool & Intact
Project Number:	03C1558483	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.112121-103.90622		

Sample ID: CS57 0.5 (H250406-01)

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	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTEX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS58 0.5 (H250406-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS59 0.5 (H250406-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	23.3	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS60 0.5 (H250406-04)

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	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTEX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS61 0.5 (H250406-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	243	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS62 0.5 (H250406-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS63 0.5 (H250406-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS64 0.5 (H250406-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS65 0.5 (H250406-09)

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	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTEx	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS66 0.5 (H250406-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS67 0.5 (H250406-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTEx	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS68 0.5 (H250406-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS69 0.5 (H250406-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS70 0.5 (H250406-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	01/24/2025	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	01/24/2025	ND	214	107	200	5.54	
DRO >C10-C28*	<10.0	10.0	01/24/2025	ND	192	96.1	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS71 0.5 (H250406-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTEx	<0.300	0.300	01/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	01/24/2025	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	01/24/2025	ND	224	112	200	1.57	
DRO >C10-C28*	846	10.0	01/24/2025	ND	212	106	200	2.83	QM-07
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS72 0.5 (H250406-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	01/24/2025	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	01/27/2025	ND	224	112	200	1.57	
DRO >C10-C28*	31.2	10.0	01/27/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS73 0.5 (H250406-17)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1790	16.0	01/24/2025	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	01/24/2025	ND	224	112	200	1.57	
DRO >C10-C28*	384	10.0	01/24/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	536	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS74 0.5 (H250406-18)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	01/24/2025	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*	32.9	10.0	01/24/2025	ND	224	112	200	1.57	
DRO >C10-C28*	2770	10.0	01/24/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	529	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS75 0.5 (H250406-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7040	16.0	01/24/2025	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	01/27/2025	ND	224	112	200	1.57	
DRO >C10-C28*	11.2	10.0	01/27/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS76 0.5 (H250406-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.15	107	2.00	2.76		
Toluene*	<0.050	0.050	01/24/2025	ND	2.27	113	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.33	117	2.00	5.59		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	7.04	117	6.00	5.27		
Total BTEX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	01/24/2025	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	01/27/2025	ND	224	112	200	1.57	
DRO >C10-C28*	12.6	10.0	01/27/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS77 0.5 (H250406-21)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.07	104	2.00	3.35		
Toluene*	<0.050	0.050	01/24/2025	ND	2.09	104	2.00	0.793		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.22	111	2.00	4.46		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	6.81	113	6.00	4.85		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	01/24/2025	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	01/24/2025	ND	224	112	200	1.57	
DRO >C10-C28*	307	10.0	01/24/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS80 0.5 (H250406-22)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.07	104	2.00	3.35		
Toluene*	<0.050	0.050	01/24/2025	ND	2.09	104	2.00	0.793		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.22	111	2.00	4.46		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	6.81	113	6.00	4.85		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	01/24/2025	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	01/24/2025	ND	224	112	200	1.57	
DRO >C10-C28*	1120	10.0	01/24/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS84 0.5 (H250406-23)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.07	104	2.00	3.35		
Toluene*	<0.050	0.050	01/24/2025	ND	2.09	104	2.00	0.793		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.22	111	2.00	4.46	QR-03	
Total Xylenes*	<0.150	0.150	01/24/2025	ND	6.81	113	6.00	4.85	QR-03	
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	01/24/2025	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	01/24/2025	ND	224	112	200	1.57	
DRO >C10-C28*	422	10.0	01/24/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS87 0.5 (H250406-24)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.07	104	2.00	3.35		
Toluene*	<0.050	0.050	01/24/2025	ND	2.09	104	2.00	0.793		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.22	111	2.00	4.46		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	6.81	113	6.00	4.85		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	01/24/2025	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	01/24/2025	ND	224	112	200	1.57	
DRO >C10-C28*	429	10.0	01/24/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS88 0.5 (H250406-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.07	104	2.00	3.35		
Toluene*	<0.050	0.050	01/24/2025	ND	2.09	104	2.00	0.793		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.22	111	2.00	4.46		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	6.81	113	6.00	4.85		
Total BTEx	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	01/24/2025	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	01/27/2025	ND	224	112	200	1.57	
DRO >C10-C28*	388	10.0	01/27/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS89 0.5 (H250406-26)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.07	104	2.00	3.35		
Toluene*	<0.050	0.050	01/24/2025	ND	2.09	104	2.00	0.793		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.22	111	2.00	4.46		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	6.81	113	6.00	4.85		
Total BTX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	01/24/2025	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	01/24/2025	ND	224	112	200	1.57	
DRO >C10-C28*	1350	10.0	01/24/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 65.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.5 % 49.1-148

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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS90 0.5 (H250406-27)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.07	104	2.00	3.35		
Toluene*	<0.050	0.050	01/24/2025	ND	2.09	104	2.00	0.793		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.22	111	2.00	4.46		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	6.81	113	6.00	4.85		
Total BTX	<0.300	0.300	01/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	01/24/2025	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	01/27/2025	ND	224	112	200	1.57	
DRO >C10-C28*	163	10.0	01/27/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS91 0.5 (H250406-28)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.07	104	2.00	3.35		
Toluene*	<0.050	0.050	01/24/2025	ND	2.09	104	2.00	0.793		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.22	111	2.00	4.46		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	6.81	113	6.00	4.85		
Total BTX	<0.300	0.300	01/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	01/24/2025	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	01/24/2025	ND	224	112	200	1.57	
DRO >C10-C28*	890	10.0	01/24/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2025
Reported: 01/27/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 01/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS92 0.5 (H250406-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2025	ND	2.07	104	2.00	3.35		
Toluene*	<0.050	0.050	01/24/2025	ND	2.09	104	2.00	0.793		
Ethylbenzene*	<0.050	0.050	01/24/2025	ND	2.22	111	2.00	4.46		
Total Xylenes*	<0.150	0.150	01/24/2025	ND	6.81	113	6.00	4.85		
Total BTEX	<0.300	0.300	01/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	01/24/2025	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	01/24/2025	ND	224	112	200	1.57	
DRO >C10-C28*	1160	10.0	01/24/2025	ND	212	106	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	01/24/2025	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Notes and Definitions

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

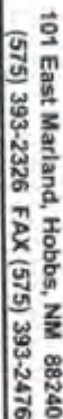
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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

194 W

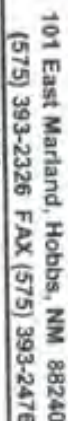


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

W

F. D. ROY-GUNO R. 3.2 10.07/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Z
W

Page 34 of 34



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

February 12, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 20-8 BD 104H

Enclosed are the results of analyses for samples received by the laboratory on 02/10/25 12:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2025
 Reported: 02/12/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 01 1' (H250786-01)

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	02/11/2025	ND	1.81	90.4	2.00	0.781	
Toluene*	<0.050	0.050	02/11/2025	ND	1.91	95.3	2.00	1.10	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.94	97.2	2.00	1.82	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.90	98.3	6.00	2.45	
Total BTEX	<0.300	0.300	02/11/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/11/2025	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	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/10/2025
 Reported: 02/12/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 94 0.5' (H250786-02)

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	02/11/2025	ND	1.81	90.4	2.00	0.781		
Toluene*	<0.050	0.050	02/11/2025	ND	1.91	95.3	2.00	1.10		
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.94	97.2	2.00	1.82		
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.90	98.3	6.00	2.45		
Total BTEX	<0.300	0.300	02/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	02/11/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.6	10.0	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	2700	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	69.8	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 153 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/10/2025
 Reported: 02/12/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 95 0.5' (H250786-03)

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	02/11/2025	ND	1.81	90.4	2.00	0.781	
Toluene*	<0.050	0.050	02/11/2025	ND	1.91	95.3	2.00	1.10	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.94	97.2	2.00	1.82	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.90	98.3	6.00	2.45	
Total BTEX	<0.300	0.300	02/11/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	02/11/2025	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	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	167	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/10/2025
 Reported: 02/12/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 97 0.5' (H250786-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2025	ND	1.81	90.4	2.00	0.781		
Toluene*	<0.050	0.050	02/11/2025	ND	1.91	95.3	2.00	1.10		
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.94	97.2	2.00	1.82	GC-NC	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.90	98.3	6.00	2.45		
Total BTEX	<0.300	0.300	02/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	02/11/2025	ND	400	100	400	3.92		

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	63.9	10.0	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	8430	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	121	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 278 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2025
 Reported: 02/12/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 98 0.5' (H250786-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2025	ND	1.81	90.4	2.00	0.781		
Toluene*	<0.050	0.050	02/11/2025	ND	1.91	95.3	2.00	1.10		
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.94	97.2	2.00	1.82		
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.90	98.3	6.00	2.45		
Total BTEx	<0.300	0.300	02/11/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	02/11/2025	ND	432	108	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	527	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	54.1	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2025
 Reported: 02/12/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 99 0.5' (H250786-06)

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	02/11/2025	ND	1.81	90.4	2.00	0.781		
Toluene*	<0.050	0.050	02/11/2025	ND	1.91	95.3	2.00	1.10		
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.94	97.2	2.00	1.82		
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.90	98.3	6.00	2.45		
Total BTEX	<0.300	0.300	02/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/11/2025	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	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	38.1	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2025
 Reported: 02/12/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 100 0.5' (H250786-07)

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	02/11/2025	ND	1.81	90.4	2.00	0.781		
Toluene*	<0.050	0.050	02/11/2025	ND	1.91	95.3	2.00	1.10		
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.94	97.2	2.00	1.82		
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.90	98.3	6.00	2.45		
Total BTEX	<0.300	0.300	02/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	02/11/2025	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	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	115	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/10/2025
 Reported: 02/12/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 101 0.5' (H250786-08)

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	02/11/2025	ND	1.81	90.4	2.00	0.781		
Toluene*	<0.050	0.050	02/11/2025	ND	1.91	95.3	2.00	1.10		
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.94	97.2	2.00	1.82		
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.90	98.3	6.00	2.45		
Total BTEX	<0.300	0.300	02/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10900	16.0	02/11/2025	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	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	41.8	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2025
 Reported: 02/12/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 102 0.5' (H250786-09)

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	02/11/2025	ND	1.81	90.4	2.00	0.781		
Toluene*	0.093	0.050	02/11/2025	ND	1.91	95.3	2.00	1.10		
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.94	97.2	2.00	1.82		
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.90	98.3	6.00	2.45		
Total BTEX	<0.300	0.300	02/11/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9200	16.0	02/11/2025	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	02/11/2025	ND	222	111	200	1.64	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	218	109	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Tracy Hillard

Address: 601 N Marland Street, suite 400

City: Midland

State: TX Zip: 79701

Phone #: 575-937-3906

Fax #:

Project #: 03C1558483

Project Owner:

Project Name: PLU 20-8 Brushy Draw 104H

Project Location: 32.112121, -103.90622

Sampler Name: Uriel Santillana

P.O. #:

Company: XTO Energy

Attn: Colton Brown

Address:

City:

State: NM Zip:

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	ANALYSIS
4250784	FS02	1'	C	1	GROUNDWATER			7/2/25	11:27	Chloride
1	CS94	0.5'	C	1	WASTEWATER					BTEX
2	CS95	0.5'	C	1	SOIL					TPH
3	CS97	0.5'	C	1	OIL					
4	CS98	0.5'	C	1	SLUDGE					
5	CS99	0.5'	C	1	OTHER					
6	CS100	0.5'	C	1	ACID/BASE					
7	CS101	0.5'	C	1	ICE / COOL					
8	CS102	0.5'	C	1	OTHER					

PLEASE NOTE: Sampling and Chain-of-Custody procedures are strictly followed for any chain of custody. Samples are sealed in triplicate and labeled with the date and time of collection. All samples are sealed in triplicate and labeled with the date and time of collection. All samples are sealed in triplicate and labeled with the date and time of collection.

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Verbal Result: ☐ Yes ☐ No Add Phone #:

All Results are emailed. Please provide Email address: usantillana@ensolum.com

REMARKS:

Incident number: NAPP240475069

Turnaround Time: Standard ☐ Bacteria (only) Sample Condition

Thermometer ID and #1120 ☐ Cool Intact ☐ Yes ☐ No

Corrected Temp: 19.2°C

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



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

February 28, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 20-8 BD 104H

Enclosed are the results of analyses for samples received by the laboratory on 02/11/25 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

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited 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)

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,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 02 1.5'	H250815-01	Soil	10-Feb-25 09:50	11-Feb-25 13:05
FS 03 1.5'	H250815-02	Soil	10-Feb-25 09:59	11-Feb-25 13:05
FS 04 1.5'	H250815-03	Soil	10-Feb-25 10:05	11-Feb-25 13:05
FS 05 1'	H250815-04	Soil	10-Feb-25 10:09	11-Feb-25 13:05
CSW 03 0.5'	H250815-05	Soil	10-Feb-25 10:25	11-Feb-25 13:05
CSW 01 0.5'	H250815-06	Soil	10-Feb-25 13:15	11-Feb-25 13:05
CSW 02 0.5'	H250815-07	Soil	10-Feb-25 13:10	11-Feb-25 13:05
FS 07 2'	H250815-08	Soil	10-Feb-25 14:07	11-Feb-25 13:05
FS 22 1'	H250815-09	Soil	10-Feb-25 14:40	11-Feb-25 13:05
FS 13 4'	H250815-10	Soil	10-Feb-25 15:28	11-Feb-25 13:05
FS 17 4'	H250815-11	Soil	10-Feb-25 13:46	11-Feb-25 13:05
FS 18 4'	H250815-12	Soil	10-Feb-25 13:43	11-Feb-25 13:05
FS 19 3'	H250815-13	Soil	10-Feb-25 13:30	11-Feb-25 13:05
FS 20 3'	H250815-14	Soil	10-Feb-25 13:15	11-Feb-25 13:05
FS 21 3'	H250815-15	Soil	10-Feb-25 13:25	11-Feb-25 13:05

02/28/25 - Client changed the sample IDs on -05, -06 and -07 (see COC). This is the revised report and will replace the one sent on 02/13/25.

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

FS 02 1.5'
H250815-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	352		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	71.5-134	5021124	JH	11-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	

Surrogate: 1-Chlorooctane	84.3 %	48.2-134	5021130	MS	11-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane	87.0 %	49.1-148	5021130	MS	11-Feb-25	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

FS 03 1.5'
H250815-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	944		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %		71.5-134	5021124	JH	11-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.9 %		48.2-134	5021130	MS	11-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.4 %		49.1-148	5021130	MS	11-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

FS 04 1.5'
H250815-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		5021124	JH	11-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	
DRO >C10-C28*	36.8		10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	

Surrogate: 1-Chlorooctane			87.9 %	48.2-134		5021130	MS	11-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			89.4 %	49.1-148		5021130	MS	11-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

FS 05 1'
H250815-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %		71.5-134	5021124	JH	11-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	
DRO >C10-C28*	152		10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.3 %		48.2-134	5021130	MS	11-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.6 %		49.1-148	5021130	MS	11-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

CSW 03 0.5'
H250815-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	464		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		5021124	JH	11-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021130	MS	11-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.9 %	48.2-134		5021130	MS	11-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.2 %	49.1-148		5021130	MS	11-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

CSW 01 0.5'
H250815-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	448		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	71.5-134	5021124	JH	11-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	

Surrogate: 1-Chlorooctane	82.6 %	48.2-134	5021130	MS	12-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane	86.7 %	49.1-148	5021130	MS	12-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

CSW 02 0.5'
H250815-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	352		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %		71.5-134	5021124	JH	11-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.2 %		48.2-134	5021130	MS	12-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.2 %		49.1-148	5021130	MS	12-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

FS 07 2'
H250815-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1920		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		5021124	JH	11-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
DRO >C10-C28*	263		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	

Surrogate: 1-Chlorooctane			95.5 %	48.2-134		5021130	MS	12-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			102 %	49.1-148		5021130	MS	12-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

FS 22 1'
H250815-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	496		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134 5021124 JH 11-Feb-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	

Surrogate: 1-Chlorooctane 96.3 % 48.2-134 5021130 MS 12-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148 5021130 MS 12-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

FS 13 4'
H250815-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	71.5-134		5021124	JH	11-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
DRO >C10-C28*	83.1		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.0 %	48.2-134		5021130	MS	12-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.8 %	49.1-148		5021130	MS	12-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

FS 17 4'
H250815-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	368		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		5021124	JH	11-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
DRO >C10-C28*	750		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			101 %	48.2-134		5021130	MS	12-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			111 %	49.1-148		5021130	MS	12-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

FS 18 4'
H250815-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134 5021124 JH 11-Feb-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
DRO >C10-C28*	65.1		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	

Surrogate: 1-Chlorooctane 91.6 % 48.2-134 5021130 MS 12-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148 5021130 MS 12-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

FS 19 3'
H250815-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	352		16.0	mg/kg	4	5021202	AC	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5021124	JH	11-Feb-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5021124	JH	11-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	71.5-134	5021124	JH	11-Feb-25	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B
DRO >C10-C28*	205	10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B

Surrogate: 1-Chlorooctane	95.9 %	48.2-134	5021130	MS	12-Feb-25	8015B
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Surrogate: 1-Chlorooctadecane	106 %	49.1-148	5021130	MS	12-Feb-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

FS 20 3'
H250815-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	384		16.0	mg/kg	4	5021208	HM	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021132	JH	11-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021132	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021132	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021132	JH	11-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021132	JH	11-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %		71.5-134	5021132	JH	11-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
DRO >C10-C28*	138		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	

Surrogate: 1-Chlorooctane			93.4 %		48.2-134	5021130	MS	12-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			99.9 %		49.1-148	5021130	MS	12-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

FS 21 3'
H250815-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	352		16.0	mg/kg	4	5021208	HM	12-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021132	JH	11-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021132	JH	11-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021132	JH	11-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021132	JH	11-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021132	JH	11-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		5021132	JH	11-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
DRO >C10-C28*	545		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021130	MS	12-Feb-25	8015B	

Surrogate: 1-Chlorooctane			97.1 %	48.2-134		5021130	MS	12-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	49.1-148		5021130	MS	12-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5021202 - 1:4 DI Water**Blank (5021202-BLK1)**

Prepared & Analyzed: 12-Feb-25

Chloride	ND	16.0	mg/kg
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LCS (5021202-BS1)

Prepared & Analyzed: 12-Feb-25

Chloride	432	16.0	mg/kg	400	108	80-120
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LCS Dup (5021202-BSD1)

Prepared & Analyzed: 12-Feb-25

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20
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Batch 5021208 - 1:4 DI Water**Blank (5021208-BLK1)**

Prepared & Analyzed: 12-Feb-25

Chloride	ND	16.0	mg/kg
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LCS (5021208-BS1)

Prepared & Analyzed: 12-Feb-25

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (5021208-BSD1)

Prepared & Analyzed: 12-Feb-25

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5021124 - Volatiles**Blank (5021124-BLK1)**

Prepared & Analyzed: 11-Feb-25

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)	0.0506		mg/kg	0.0500		101	71.5-134			

LCS (5021124-BS1)

Prepared & Analyzed: 11-Feb-25

Benzene	1.83	0.050	mg/kg	2.00		91.5	82.8-130			
Toluene	2.02	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	85.9-128			
m,p-Xylene	3.94	0.100	mg/kg	4.00		98.5	89-129			
o-Xylene	1.84	0.050	mg/kg	2.00		91.9	86.1-125			
Total Xylenes	5.47	0.150	mg/kg	6.00		91.1	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.3	71.5-134			

LCS Dup (5021124-BSD1)

Prepared & Analyzed: 11-Feb-25

Benzene	1.92	0.050	mg/kg	2.00		96.2	82.8-130	4.95	15.8	
Toluene	2.00	0.050	mg/kg	2.00		100	86-128	0.885	15.9	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	85.9-128	1.17	16	
m,p-Xylene	3.88	0.100	mg/kg	4.00		97.0	89-129	1.61	16.2	
o-Xylene	1.92	0.050	mg/kg	2.00		95.8	86.1-125	4.10	16.7	
Total Xylenes	5.79	0.150	mg/kg	6.00		96.6	88.2-128	5.81	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	71.5-134			

Batch 5021132 - Volatiles**Blank (5021132-BLK1)**

Prepared & Analyzed: 11-Feb-25

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							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5021132 - Volatiles**Blank (5021132-BLK1)**

Prepared & Analyzed: 11-Feb-25

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0548		mg/kg	0.0500		110	71.5-134			

LCS (5021132-BS1)

Prepared & Analyzed: 11-Feb-25

Benzene	1.88	0.050	mg/kg	2.00		94.1	82.8-130			
Toluene	1.93	0.050	mg/kg	2.00		96.6	86-128			
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.5	85.9-128			
m,p-Xylene	4.07	0.100	mg/kg	4.00		102	89-129			
o-Xylene	1.89	0.050	mg/kg	2.00		94.7	86.1-125			
Total Xylenes	5.96	0.150	mg/kg	6.00		99.4	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

LCS Dup (5021132-BSD1)

Prepared & Analyzed: 11-Feb-25

Benzene	1.90	0.050	mg/kg	2.00		94.9	82.8-130	0.783	15.8	
Toluene	1.95	0.050	mg/kg	2.00		97.4	86-128	0.879	15.9	
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.2	85.9-128	0.759	16	
m,p-Xylene	4.10	0.100	mg/kg	4.00		102	89-129	0.673	16.2	
o-Xylene	1.90	0.050	mg/kg	2.00		95.0	86.1-125	0.289	16.7	
Total Xylenes	6.00	0.150	mg/kg	6.00		99.9	88.2-128	0.551	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 20-8 BD 104H
Project Number: 03C1558483
Project Manager: TRACY HILLARD
Fax To:

Reported:
28-Feb-25 14:47

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5021130 - General Prep - Organics**Blank (5021130-BLK1)**

Prepared & Analyzed: 11-Feb-25

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	66.8		mg/kg	50.0		134	48.2-134			
Surrogate: 1-Chlorooctadecane	69.2		mg/kg	50.0		138	49.1-148			

LCS (5021130-BS1)

Prepared & Analyzed: 11-Feb-25

GRO C6-C10	201	10.0	mg/kg	200		100	81.5-123			
DRO >C10-C28	204	10.0	mg/kg	200		102	77.7-122			
Total TPH C6-C28	405	10.0	mg/kg	400		101	80.9-121			
Surrogate: 1-Chlorooctane	66.8		mg/kg	50.0		134	48.2-134			
Surrogate: 1-Chlorooctadecane	68.3		mg/kg	50.0		137	49.1-148			

LCS Dup (5021130-BSD1)

Prepared & Analyzed: 11-Feb-25

S-05

GRO C6-C10	195	10.0	mg/kg	200		97.5	81.5-123	2.86	13	
DRO >C10-C28	200	10.0	mg/kg	200		99.8	77.7-122	2.19	15.6	
Total TPH C6-C28	395	10.0	mg/kg	400		98.6	80.9-121	2.52	18.5	
Surrogate: 1-Chlorooctane	76.2		mg/kg	50.0		152	48.2-134			
Surrogate: 1-Chlorooctadecane	82.7		mg/kg	50.0		165	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control 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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC										BILL TO										ANALYSIS REQUEST									
Project Manager: Tracy Hillard										P.O. #:																			
Address: 601 N Marienfeld Street, suite 400										Company: XTO Energy																			
City: Midland										Attn: Cotton Brown																			
State: TX Zip: 79701																													
Phone #: 575-937-3906 Fax #:										Address:																			
Project #: 03C1558483 Project Owner:										City:																			
Project Name: PLU 20-8 Brushy Draw 104H										State: NM Zip:																			
Project Location: 32.112121, -103.90622										Phone #:																			
Sampler Name: Unel Sanlliana										Fax #:																			
FOR LAB USE ONLY																													
Lab I.D.										Sample I.D.																			
Depth (feet)										MATRIX										PRESERV									
										GROUNDWATER										WASTEWATER									
										SOIL										SLUDGE									
										OTHER:										ACID/BASE:									
										ICE / COOL										OTHER:									
DATE										TIME																			
9/10/25										950																			
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69										F570										1.5'									
70										F571</																			



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

February 14, 2025

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

RE: PLU 20-8 BD 104H

Enclosed are the results of analyses for samples received by the laboratory on 02/13/25 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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 06 4' (H250877-01)

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	02/13/2025	ND	2.14	107	2.00	1.69	
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179	
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972	
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44	
Total BTEX	<0.300	0.300	02/13/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	103	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 08 5' (H250877-02)

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	02/13/2025	ND	2.14	107	2.00	1.69		
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179		
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972		
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44		
Total BTEx	<0.300	0.300	02/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	<10.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 09 5' (H250877-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2025	ND	2.14	107	2.00	1.69		
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179		
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972		
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44		
Total BTX	<0.300	0.300	02/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	47.2	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 10 5' (H250877-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2025	ND	2.14	107	2.00	1.69		
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179		
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972		
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44		
Total BTEX	<0.300	0.300	02/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	<10.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 11 5' (H250877-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2025	ND	2.14	107	2.00	1.69	
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179	
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972	
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44	
Total BTX	<0.300	0.300	02/13/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	<10.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 12 4' (H250877-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2025	ND	2.14	107	2.00	1.69		
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179		
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972		
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44		
Total BTX	<0.300	0.300	02/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	172	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 14 5' (H250877-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2025	ND	2.14	107	2.00	1.69		
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179		
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972		
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44		
Total BTX	<0.300	0.300	02/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	<10.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 15 5' (H250877-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2025	ND	2.14	107	2.00	1.69		
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179		
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972		
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44		
Total BTX	<0.300	0.300	02/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	<10.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 16 4' (H250877-09)

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	02/13/2025	ND	2.14	107	2.00	1.69		
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179		
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972		
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44		
Total BTEX	<0.300	0.300	02/13/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	32.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 23 4' (H250877-10)

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	02/13/2025	ND	2.14	107	2.00	1.69	
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179	
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972	
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44	
Total BTEx	<0.300	0.300	02/13/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	<10.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 01 0-4' (H250877-11)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2025	ND	2.14	107	2.00	1.69		
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179		
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972		
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44		
Total BTX	<0.300	0.300	02/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	<10.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 02 0-4' (H250877-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2025	ND	2.14	107	2.00	1.69		
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179		
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972		
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44		
Total BTEx	<0.300	0.300	02/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	<10.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 03 0-4' (H250877-13)

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	02/13/2025	ND	2.14	107	2.00	1.69		
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179		
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972		
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44		
Total BTEX	<0.300	0.300	02/13/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	625	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 04 0-4' (H250877-14)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2025	ND	2.14	107	2.00	1.69	
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179	
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972	
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44	
Total BTX	<0.300	0.300	02/13/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	<10.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 05 0-4' (H250877-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2025	ND	2.14	107	2.00	1.69	
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179	
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972	
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44	
Total BTEX	<0.300	0.300	02/13/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	660	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 06 4-5' (H250877-16)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2025	ND	2.14	107	2.00	1.69	
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179	
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972	
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44	
Total BTX	<0.300	0.300	02/13/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	277	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 07 4-5' (H250877-17)

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	02/13/2025	ND	2.14	107	2.00	1.69	
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179	
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972	
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44	
Total BTEX	<0.300	0.300	02/13/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	<10.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 08 0-3' (H250877-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2025	ND	2.14	107	2.00	1.69	
Toluene*	<0.050	0.050	02/13/2025	ND	2.19	109	2.00	0.179	
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.18	109	2.00	0.972	
Total Xylenes*	<0.150	0.150	02/13/2025	ND	6.61	110	6.00	1.44	
Total BTEX	<0.300	0.300	02/13/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	<10.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2025
 Reported: 02/14/2025
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 02/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 24 4' (H250877-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2025	ND	1.97	98.4	2.00	1.44		
Toluene*	<0.050	0.050	02/13/2025	ND	2.07	104	2.00	1.66		
Ethylbenzene*	<0.050	0.050	02/13/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	02/13/2025	ND	5.98	99.6	6.00	1.43		
Total BTEX	<0.300	0.300	02/13/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/14/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2025	ND	205	102	200	5.93	
DRO >C10-C28*	<10.0	10.0	02/13/2025	ND	198	98.8	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	02/13/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 22 of 23



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Tracy Hillard Address: 601 N Marientfeld Street, Suite 400 City: Midland State: TX Zip: 79701 Phone #: 575-937-3908 Fax #: Project #: 03C155 6483 Project Owner: XTO Energy Project Name: PLU Bros 2C-8 Bros Drw 104H Project Location: 32.1121, -103.90622 Sampler Name: Green Box Fax #:				BILL TO P.O. #: Company: XTO Energy, Inc Attn: Colton Brown Address: 3104 E Greene St City: Carlsbad State: NM Zip: 88220 Phone #:				ANALYSIS REQUEST			
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: Email: @ensolum.com, TMC: @ensolum.com, T: @ensolum.com		REMARKS:					
Relinquished By: Green Box		Date: 1/13/25 Time: 4:15 Received By: Michael Schick		Verbal Result:							



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

March 03, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20-8 BRUSHY DRAW 104H

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/27/2025	Sampling Date:	02/25/2025
Reported:	03/03/2025	Sampling Type:	Soil
Project Name:	PLU 20-8 BRUSHY DRAW 104H	Sampling Condition:	Cool & Intact
Project Number:	03C1558483	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.112121-103.90622		

Sample ID: CS 07 A 0.5 (H251174-01)

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	02/28/2025	ND	1.87	93.6	2.00	1.14	
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816	
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616	
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759	
Total BTEX	<0.300	0.300	02/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	02/28/2025	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*	25.1	10.0	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	1290	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 106 % 71.8-148

Surrogate: 1-Chlorooctadecane 136 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: CS 08 A 1 (H251174-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2025	ND	1.87	93.6	2.00	1.14		
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816		
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616		
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759		
Total BTX	<0.300	0.300	02/28/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	02/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 71.8-148

Surrogate: 1-Chlorooctadecane 103 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: CS 16 A 1 (H251174-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2025	ND	1.87	93.6	2.00	1.14		
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816		
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616		
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759		
Total BTX	<0.300	0.300	02/28/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	02/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	623	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	104	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 102 % 71.8-148

Surrogate: 1-Chlorooctadecane 123 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: CS 17 A 0.5 (H251174-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2025	ND	1.87	93.6	2.00	1.14		
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816		
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616		
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759		
Total BTX	<0.300	0.300	02/28/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	02/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	452	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 104 % 71.8-148

Surrogate: 1-Chlorooctadecane 120 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: CS 20 A 0.5 (H251174-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2025	ND	1.87	93.6	2.00	1.14	
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816	
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616	
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759	
Total BTEX	<0.300	0.300	02/28/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/28/2025	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	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	232	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	287	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 71.8-148

Surrogate: 1-Chlorooctadecane 103 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: CS 24 A 0.5 (H251174-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2025	ND	1.87	93.6	2.00	1.14		
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816		
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616		
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759		
Total BTX	<0.300	0.300	02/28/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	02/28/2025	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	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	19.9	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 71.8-148

Surrogate: 1-Chlorooctadecane 106 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: CS 26 A 0.5 (H251174-07)

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	02/28/2025	ND	1.87	93.6	2.00	1.14		
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816		
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616		
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759		
Total BTEX	<0.300	0.300	02/28/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	02/28/2025	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	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	592	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	667	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 71.8-148

Surrogate: 1-Chlorooctadecane 101 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: CS 33 A 0.5 (H251174-08)

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	02/28/2025	ND	1.87	93.6	2.00	1.14	
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816	
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616	
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759	
Total BTEX	<0.300	0.300	02/28/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	02/28/2025	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	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	192	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	187	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 71.8-148

Surrogate: 1-Chlorooctadecane 107 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: CS 36 A 0.5 (H251174-09)

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	02/28/2025	ND	1.87	93.6	2.00	1.14	
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816	
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616	
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759	
Total BTEX	<0.300	0.300	02/28/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	02/28/2025	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	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	468	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	458	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 103 % 71.8-148

Surrogate: 1-Chlorooctadecane 110 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: CS 74 A 1 (H251174-10)

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	02/28/2025	ND	1.87	93.6	2.00	1.14	
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816	
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616	
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759	
Total BTEx	<0.300	0.300	02/28/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	02/28/2025	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	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	919	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	120	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 108 % 71.8-148

Surrogate: 1-Chlorooctadecane 135 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: SW 12 0-0.5 (H251174-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2025	ND	1.87	93.6	2.00	1.14		
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816		
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616		
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759		
Total BTEx	<0.300	0.300	02/28/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	02/28/2025	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	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	12.2	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 96.0 % 71.8-148

Surrogate: 1-Chlorooctadecane 98.8 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: SW 13 0-1 (H251174-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2025	ND	1.87	93.6	2.00	1.14		
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816		
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616		
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759		
Total BTEX	<0.300	0.300	02/28/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	02/28/2025	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	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	798	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	298	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 92.6 % 71.8-148

Surrogate: 1-Chlorooctadecane 111 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: SW 14 0-1 (H251174-13)

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	02/28/2025	ND	1.87	93.6	2.00	1.14	
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816	
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616	
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759	
Total BTEx	<0.300	0.300	02/28/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/28/2025	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	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 106 % 71.8-148

Surrogate: 1-Chlorooctadecane 112 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: SW 15 0-1 (H251174-14)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2025	ND	1.87	93.6	2.00	1.14	
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816	
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616	
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759	
Total BTX	<0.300	0.300	02/28/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/28/2025	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	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 71.8-148

Surrogate: 1-Chlorooctadecane 101 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2025
Reported: 03/03/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

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

Sample ID: SW 16 0-0.5 (H251174-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2025	ND	1.87	93.6	2.00	1.14		
Toluene*	<0.050	0.050	02/28/2025	ND	2.02	101	2.00	0.0816		
Ethylbenzene*	<0.050	0.050	02/28/2025	ND	2.07	103	2.00	0.616		
Total Xylenes*	<0.150	0.150	02/28/2025	ND	6.35	106	6.00	0.0759		
Total BTEX	<0.300	0.300	02/28/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	02/28/2025	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	02/28/2025	ND	240	120	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/28/2025	ND	222	111	200	1.74	
EXT DRO >C28-C36	11.1	10.0	02/28/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 71.8-148

Surrogate: 1-Chlorooctadecane 98.7 % 63.9-155

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



2 of 1

Page 18 of 19



2 of 2

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX							PRESERV.			SAMPLING		Chlorides	TPH	BTEX	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE: ICE / COOL	OTHER:	DATE	TIME						
<i>HCS1174</i>	SW12	0-0.5	C 1	X								X			2.25.35	0940	X	X	X
	SW13	0-1	I 1													1505			
	SW14	0-1	I 1													130			
	SW15	0-1	I 1													1105			
	SW16	0-0.5	C 1	X								X			2.25.35	1410	X	X	X

JDB

Relinquished By:	Date: 3/27/05	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Time: 1400			All Results are emailed. Please provide Email address:
Date:			TH10101d @sensolum.com, TMorrissey@sensolum.com, KTDamason@sensolum.com
Time:			REMARKS: APP 240475069
			Incident: wAPP
			Cost Center: 2234951001

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



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

March 18, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 20-8 BRUSHY DRAW 104H

Enclosed are the results of analyses for samples received by the laboratory on 03/14/25 9:22.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/14/2025
 Reported: 03/18/2025
 Project Name: PLU 20-8 BRUSHY DRAW 104H
 Project Number: 03C1558590
 Project Location: XTO 32.112121-103.90622

Sampling Date: 03/13/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS 86A 3' (H251529-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	79.9	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/14/2025
 Reported: 03/18/2025
 Project Name: PLU 20-8 BRUSHY DRAW 104H
 Project Number: 03C1558590
 Project Location: XTO 32.112121-103.90622

Sampling Date: 03/13/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS 96 0.5' (H251529-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	95.1	2.00	0.572	
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49	
Total BTX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	55.2	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/14/2025
 Reported: 03/18/2025
 Project Name: PLU 20-8 BRUSHY DRAW 104H
 Project Number: 03C1558590
 Project Location: XTO 32.112121-103.90622

Sampling Date: 03/13/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS 79A 2' (H251529-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/14/2025
 Reported: 03/18/2025
 Project Name: PLU 20-8 BRUSHY DRAW 104H
 Project Number: 03C1558590
 Project Location: XTO 32.112121-103.90622

Sampling Date: 03/13/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS 82 2' (H251529-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/14/2025
 Reported: 03/18/2025
 Project Name: PLU 20-8 BRUSHY DRAW 104H
 Project Number: 03C1558590
 Project Location: XTO 32.112121-103.90622

Sampling Date: 03/13/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS 97 0.5' (H251529-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	95.1	2.00	0.572	
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9360	16.0	03/17/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	3070	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	233	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 125 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/14/2025
 Reported: 03/18/2025
 Project Name: PLU 20-8 BRUSHY DRAW 104H
 Project Number: 03C1558590
 Project Location: XTO 32.112121-103.90622

Sampling Date: 03/13/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS 07 2' (H251529-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	03/17/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	31.3	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 99.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.4 % 40.6-153

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Tracy Hillard Address: 601 N Marland Street, suite 400 City: Midland State: TX Zip: 79701 Phone #: 575-937-3906 Fax #: Project #: 03C1558590 Project Owner: Project Name: PLU 20-8 Brushy Draw 104H Project Location: 32.112121, -103.90622 Sampler Name: Uriel Santillana				BILL TO P.O. #: Company: XTO Energy Attn: Colton Brown Address: City: State: NM Zip: Phone #: Fax #:				ANALYSIS REQUEST									
Lab I.D. 15015004		Sample I.D. CS86A CS96 CS79A CS82 CS97 CS07		Depth (feet) 3' 0.5' 2' 2' 0.5' 2'		(G)RAB OR (C)OMP C 1		# CONTAINERS 1		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV ACID/BASE ICE / COOL OTHER:		SAMPLING DATE 3/13/25 TIME 10:55		Chloride BTEX TPH	
Relinquished By: [Signature]		Received By: [Signature]		Date: 3/14/25		Time: 11:30		Turnaround Time: Rush		Standard ☒		Bacteria (only) ☐		Sample Condition Cool Intact ☐		Observed Temp. °C 41.5	
Delivered By: (Circle One) UPS - UPS - Bus - Other:		Corrected Temp. °C 41.5		Sample Condition Cool Intact ☐		CHECKED BY: (Initials) AP		Turnaround Time: Rush		Standard ☒		Bacteria (only) ☐		Sample Condition Cool Intact ☐		Observed Temp. °C 41.5	
REMARKS: Incident #: 10APP240475069 All Results are emailed. Please provide Email address: uriel.santillana@ensolum.com Email: uriel.santillana@ensolum.com																	



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

October 18, 2024

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 20-8 BD 104H

Enclosed are the results of analyses for samples received by the laboratory on 10/17/24 16:14.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/17/2024
 Reported: 10/18/2024
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 10/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 0.5' (H246371-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.22	111	2.00	15.0	
Toluene*	<0.050	0.050	10/18/2024	ND	2.14	107	2.00	14.6	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.16	108	2.00	13.7	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.44	107	6.00	13.9	
Total BTEX	<0.300	0.300	10/18/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	10/18/2024	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	10/17/2024	ND	195	97.5	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/17/2024	ND	187	93.4	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	10/17/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/17/2024
 Reported: 10/18/2024
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 10/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 3' (H246371-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.22	111	2.00	15.0	
Toluene*	<0.050	0.050	10/18/2024	ND	2.14	107	2.00	14.6	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.16	108	2.00	13.7	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.44	107	6.00	13.9	
Total BTEX	<0.300	0.300	10/18/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/18/2024	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	10/17/2024	ND	195	97.5	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/17/2024	ND	187	93.4	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	10/17/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/17/2024
 Reported: 10/18/2024
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 10/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 0.5' (H246371-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/18/2024	ND	2.22	111	2.00	15.0		
Toluene*	<0.050	0.050	10/18/2024	ND	2.14	107	2.00	14.6		
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.16	108	2.00	13.7		
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.44	107	6.00	13.9		
Total BTEx	<0.300	0.300	10/18/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	10/18/2024	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	10/17/2024	ND	195	97.5	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/17/2024	ND	187	93.4	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	10/17/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Analytical Results For:

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

Received: 10/17/2024
 Reported: 10/18/2024
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 10/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 3' (H246371-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.22	111	2.00	15.0	
Toluene*	<0.050	0.050	10/18/2024	ND	2.14	107	2.00	14.6	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.16	108	2.00	13.7	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.44	107	6.00	13.9	
Total BTEX	<0.300	0.300	10/18/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	10/18/2024	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	10/17/2024	ND	195	97.5	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/17/2024	ND	187	93.4	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	10/17/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Analytical Results For:

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

Received: 10/17/2024
 Reported: 10/18/2024
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 10/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 5' (H246371-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/18/2024	ND	2.22	111	2.00	15.0		
Toluene*	<0.050	0.050	10/18/2024	ND	2.14	107	2.00	14.6		
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.16	108	2.00	13.7		
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.44	107	6.00	13.9		
Total BTEX	<0.300	0.300	10/18/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/18/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2024	ND	195	97.5	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/17/2024	ND	187	93.4	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	10/17/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Analytical Results For:

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

Received: 10/17/2024
 Reported: 10/18/2024
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 10/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 02 0.5' (H246371-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/18/2024	ND	2.19	110	2.00	0.528		
Toluene*	<0.050	0.050	10/18/2024	ND	2.13	106	2.00	3.06		
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.08	104	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.13	102	6.00	2.78		
Total BTEX	<0.300	0.300	10/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	10/18/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2024	ND	195	97.5	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	187	93.4	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Analytical Results For:

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

Received: 10/17/2024
 Reported: 10/18/2024
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 10/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 02 1' (H246371-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/18/2024	ND	2.19	110	2.00	0.528		
Toluene*	<0.050	0.050	10/18/2024	ND	2.13	106	2.00	3.06		
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.08	104	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.13	102	6.00	2.78		
Total BTEX	<0.300	0.300	10/18/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/18/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2024	ND	195	97.5	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	187	93.4	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/17/2024
 Reported: 10/18/2024
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 10/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 04 0.5' (H246371-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.19	110	2.00	0.528	
Toluene*	<0.050	0.050	10/18/2024	ND	2.13	106	2.00	3.06	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.08	104	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.13	102	6.00	2.78	
Total BTEX	<0.300	0.300	10/18/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	10/18/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2024	ND	195	97.5	200	3.90	
DRO >C10-C28*	1970	10.0	10/18/2024	ND	187	93.4	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

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

Received: 10/17/2024
 Reported: 10/18/2024
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 10/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 04 2' (H246371-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/18/2024	ND	2.19	110	2.00	0.528		
Toluene*	<0.050	0.050	10/18/2024	ND	2.13	106	2.00	3.06		
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.08	104	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.13	102	6.00	2.78		
Total BTEX	<0.300	0.300	10/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/18/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2024	ND	195	97.5	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	187	93.4	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received: 10/17/2024
 Reported: 10/18/2024
 Project Name: PLU 20-8 BD 104H
 Project Number: 03C1558483
 Project Location: XTO 32.112121-103.90622

Sampling Date: 10/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 04 3' (H246371-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/18/2024	ND	2.19	110	2.00	0.528		
Toluene*	<0.050	0.050	10/18/2024	ND	2.13	106	2.00	3.06		
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.08	104	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.13	102	6.00	2.78		
Total BTEx	<0.300	0.300	10/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/18/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2024	ND	195	97.5	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	187	93.4	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

$$\frac{1}{2}$$



101 East Highland, Hobbs, NM 88240
(505) 383-2525 FAX (505) 383-2478

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: **Tracy Howard**
Address: **601 N. Warrick St**
City: **Midland** State: **TX** Zip: **79701**
Phone #: **575-437-3906** Fax #:
Project #: **03C1558483** Project Owner:
Project Name: **NU 20-8 BD 144H** Client: **Lockheed**
Project Location: **32, N2121, -103, 90622** Station: **NM Zip: 88220**
Sample Name: **D. McInnis** Phone #:
P.O. #: Company: **XTD**
Name: **Cliff Brown**
Address: **704 E. Green St**
City: **Lockheed**
Station: **NM Zip: 88220**
Phone #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (G)COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TAH	BTEX	Chloride
424031	PH04	0.5	G	1			X					X		10/17/24	1344	X	X	X
8	PH04	2	G	1			X					X		10/17/24	0406	X	X	X
10	PH04	3	G	1			X					X		10/17/24	1344	X	X	X

Delivered By: (Circle One) **Tracy Howard**
Sample - Urea - Ben - Osmar
Observed Temp. **29.9**
Corrected Temp. **23.4**
Sample Condition: **Good**
Container: **100 mL**
Checked By: **STP**
Received By: **Steele**
Received Date: **10/17/24**
Received Time: **1344**
Incident # **NAPP240975069**
Remarks: **Incident # NAPP240975069**
All Records are maintained. Please provide Email address: **tracy@tracyhoward.com**
Phone: **505-437-3906** Fax: **505-383-2478**



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carter
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 4/10/2024 4:15:20 PM

JOB DESCRIPTION

PLU 20-8 Brushy Draw 104H

JOB NUMBER

885-2415-1



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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4/10/2024 4:15:20 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Laboratory Job ID: 885-2415-1

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Definitions/Glossary

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Job ID: 885-2415-1

Eurofins Albuquerque

Job Narrative 885-2415-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/5/2024 7:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Client Sample ID: BH24-03 0ft

Lab Sample ID: 885-2415-1

Date Collected: 04/02/24 10:00

Matrix: Solid

Date Received: 04/05/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/05/24 11:52	04/09/24 03:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 244	04/05/24 11:52	04/09/24 03:45	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/05/24 11:52	04/09/24 03:45	1
Ethylbenzene	ND		0.047	mg/Kg		04/05/24 11:52	04/09/24 03:45	1
Toluene	ND		0.047	mg/Kg		04/05/24 11:52	04/09/24 03:45	1
Xylenes, Total	ND		0.095	mg/Kg		04/05/24 11:52	04/09/24 03:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		39 - 146	04/05/24 11:52	04/09/24 03:45	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	160		9.2	mg/Kg		04/09/24 13:26	04/09/24 19:19	1
Motor Oil Range Organics [C28-C40]	98		46	mg/Kg		04/09/24 13:26	04/09/24 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134	04/09/24 13:26	04/09/24 19:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630		5.0	mg/Kg			04/10/24 13:31	1

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Client Sample ID: BH24-03 2ft

Lab Sample ID: 885-2415-2

Date Collected: 04/02/24 10:30

Matrix: Solid

Date Received: 04/05/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/05/24 11:52	04/09/24 04:08		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		15 - 244			04/05/24 11:52	04/09/24 04:08		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		04/05/24 11:52	04/09/24 04:08		1
Ethylbenzene	ND		0.048	mg/Kg		04/05/24 11:52	04/09/24 04:08		1
Toluene	ND		0.048	mg/Kg		04/05/24 11:52	04/09/24 04:08		1
Xylenes, Total	ND		0.095	mg/Kg		04/05/24 11:52	04/09/24 04:08		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	86		39 - 146			04/05/24 11:52	04/09/24 04:08		1
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		04/09/24 13:26	04/09/24 19:32		1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/09/24 13:26	04/09/24 19:32		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	100		62 - 134			04/09/24 13:26	04/09/24 19:32		1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	81		25	mg/Kg			04/10/24 13:36		5

Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Client Sample ID: BH24-06 2ft

Lab Sample ID: 885-2415-3

Date Collected: 04/02/24 13:00

Matrix: Solid

Date Received: 04/05/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/05/24 11:52	04/09/24 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 244	04/05/24 11:52	04/09/24 04:32	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/05/24 11:52	04/09/24 04:32	1
Ethylbenzene	ND		0.046	mg/Kg		04/05/24 11:52	04/09/24 04:32	1
Toluene	ND		0.046	mg/Kg		04/05/24 11:52	04/09/24 04:32	1
Xylenes, Total	ND		0.092	mg/Kg		04/05/24 11:52	04/09/24 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146	04/05/24 11:52	04/09/24 04:32	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12		9.5	mg/Kg		04/09/24 13:26	04/09/24 19:44	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/09/24 13:26	04/09/24 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134	04/09/24 13:26	04/09/24 19:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	520		25	mg/Kg			04/10/24 13:41	5

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Client Sample ID: BH24-06 4ft

Lab Sample ID: 885-2415-4

Date Collected: 04/02/24 13:15

Matrix: Solid

Date Received: 04/05/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/05/24 11:52	04/09/24 04:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/05/24 11:52	04/09/24 04:56	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/05/24 11:52	04/09/24 04:56	1
Ethylbenzene	ND		0.048	mg/Kg		04/05/24 11:52	04/09/24 04:56	1
Toluene	ND		0.048	mg/Kg		04/05/24 11:52	04/09/24 04:56	1
Xylenes, Total	ND		0.095	mg/Kg		04/05/24 11:52	04/09/24 04:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		39 - 146			04/05/24 11:52	04/09/24 04:56	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/09/24 13:26	04/09/24 19:56	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/09/24 13:26	04/09/24 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			04/09/24 13:26	04/09/24 19:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		25	mg/Kg			04/10/24 13:46	5

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Client Sample ID: BH24-07 0ft

Lab Sample ID: 885-2415-5

Date Collected: 04/02/24 14:00

Matrix: Solid

Date Received: 04/05/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/05/24 11:52	04/09/24 05:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244			04/05/24 11:52	04/09/24 05:19	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/05/24 11:52	04/09/24 05:19	1
Ethylbenzene	ND		0.050	mg/Kg		04/05/24 11:52	04/09/24 05:19	1
Toluene	ND		0.050	mg/Kg		04/05/24 11:52	04/09/24 05:19	1
Xylenes, Total	ND		0.10	mg/Kg		04/05/24 11:52	04/09/24 05:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146			04/05/24 11:52	04/09/24 05:19	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		9.3	mg/Kg		04/09/24 13:26	04/09/24 20:09	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/09/24 13:26	04/09/24 20:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			04/09/24 13:26	04/09/24 20:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		25	mg/Kg			04/10/24 13:50	5

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Client Sample ID: BH24-07 2ft

Lab Sample ID: 885-2415-6

Date Collected: 04/02/24 14:15

Matrix: Solid

Date Received: 04/05/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/05/24 11:52	04/09/24 05:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 244			04/05/24 11:52	04/09/24 05:43	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/05/24 11:52	04/09/24 05:43	1
Ethylbenzene	ND		0.047	mg/Kg		04/05/24 11:52	04/09/24 05:43	1
Toluene	ND		0.047	mg/Kg		04/05/24 11:52	04/09/24 05:43	1
Xylenes, Total	ND		0.095	mg/Kg		04/05/24 11:52	04/09/24 05:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146			04/05/24 11:52	04/09/24 05:43	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		04/09/24 13:26	04/09/24 20:21	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		04/09/24 13:26	04/09/24 20:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			04/09/24 13:26	04/09/24 20:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65		25	mg/Kg			04/10/24 13:55	5

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QC Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-2829/1-A

Matrix: Solid

Analysis Batch: 2942

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2829

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/05/24 11:52	04/08/24 19:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/05/24 11:52	04/08/24 19:53	1

Lab Sample ID: LCS 885-2829/2-A

Matrix: Solid

Analysis Batch: 2942

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics [C6 - C10]	25.0	26.6		mg/Kg		106	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	212		15 - 244					

Lab Sample ID: MB 885-2894/1-A

Matrix: Solid

Analysis Batch: 2942

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2894

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/08/24 09:02	04/08/24 11:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244			04/08/24 09:02	04/08/24 11:37	1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-2829/1-A

Matrix: Solid

Analysis Batch: 2943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2829

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/05/24 11:52	04/08/24 19:53	1
Ethylbenzene	ND		0.050	mg/Kg		04/05/24 11:52	04/08/24 19:53	1
Toluene	ND		0.050	mg/Kg		04/05/24 11:52	04/08/24 19:53	1
Xylenes, Total	ND		0.10	mg/Kg		04/05/24 11:52	04/08/24 19:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		39 - 146			04/05/24 11:52	04/08/24 19:53	1

Lab Sample ID: LCS 885-2829/3-A

Matrix: Solid

Analysis Batch: 2943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	1.00	0.792		mg/Kg		79	70 - 130	
Ethylbenzene	1.00	0.812		mg/Kg		81	70 - 130	

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-2829/3-A

Matrix: Solid

Analysis Batch: 2943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	1.00	0.809		mg/Kg		81	70 - 130
Xylenes, Total	3.00	2.47		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		39 - 146

Lab Sample ID: MB 885-2894/1-A

Matrix: Solid

Analysis Batch: 2943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2894

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/08/24 09:02	04/08/24 11:37	1
Ethylbenzene	ND		0.050	mg/Kg		04/08/24 09:02	04/08/24 11:37	1
Toluene	ND		0.050	mg/Kg		04/08/24 09:02	04/08/24 11:37	1
Xylenes, Total	ND		0.10	mg/Kg		04/08/24 09:02	04/08/24 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146	04/08/24 09:02	04/08/24 11:37	1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-2977/1-A

Matrix: Solid

Analysis Batch: 2992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2977

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/09/24 13:26	04/09/24 16:00	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/09/24 13:26	04/09/24 16:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134	04/09/24 13:26	04/09/24 16:00	1

Lab Sample ID: LCS 885-2977/2-A

Matrix: Solid

Analysis Batch: 2992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	43.0		mg/Kg		86	60 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	115		62 - 134

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-2415-6 MS

Matrix: Solid

Analysis Batch: 2992

Client Sample ID: BH24-07 2ft

Prep Type: Total/NA

Prep Batch: 2977

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		48.8	43.7		mg/Kg		90	44 - 136		
Surrogate	MS %Recovery	MS Qualifier	Limits								
Di-n-octyl phthalate (Surr)	106		62 - 134								

Lab Sample ID: 885-2415-6 MSD

Matrix: Solid

Analysis Batch: 2992

Client Sample ID: BH24-07 2ft

Prep Type: Total/NA

Prep Batch: 2977

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		49.5	42.3		mg/Kg		85	44 - 136	3	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	111		62 - 134								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-77760/1-A

Matrix: Solid

Analysis Batch: 77797

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/10/24 11:11	1

Lab Sample ID: LCS 880-77760/2-A

Matrix: Solid

Analysis Batch: 77797

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	265		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-77760/3-A

Matrix: Solid

Analysis Batch: 77797

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	265		mg/Kg		106	90 - 110	0	20

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QC Association Summary

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

GC VOA

Prep Batch: 2829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2415-1	BH24-03 0ft	Total/NA	Solid	5030C	
885-2415-2	BH24-03 2ft	Total/NA	Solid	5030C	
885-2415-3	BH24-06 2ft	Total/NA	Solid	5030C	
885-2415-4	BH24-06 4ft	Total/NA	Solid	5030C	
885-2415-5	BH24-07 0ft	Total/NA	Solid	5030C	
885-2415-6	BH24-07 2ft	Total/NA	Solid	5030C	
MB 885-2829/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-2829/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-2829/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 2894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-2894/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 2942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2415-1	BH24-03 0ft	Total/NA	Solid	8015D	2829
885-2415-2	BH24-03 2ft	Total/NA	Solid	8015D	2829
885-2415-3	BH24-06 2ft	Total/NA	Solid	8015D	2829
885-2415-4	BH24-06 4ft	Total/NA	Solid	8015D	2829
885-2415-5	BH24-07 0ft	Total/NA	Solid	8015D	2829
885-2415-6	BH24-07 2ft	Total/NA	Solid	8015D	2829
MB 885-2829/1-A	Method Blank	Total/NA	Solid	8015D	2829
MB 885-2894/1-A	Method Blank	Total/NA	Solid	8015D	2894
LCS 885-2829/2-A	Lab Control Sample	Total/NA	Solid	8015D	2829

Analysis Batch: 2943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2415-1	BH24-03 0ft	Total/NA	Solid	8021B	2829
885-2415-2	BH24-03 2ft	Total/NA	Solid	8021B	2829
885-2415-3	BH24-06 2ft	Total/NA	Solid	8021B	2829
885-2415-4	BH24-06 4ft	Total/NA	Solid	8021B	2829
885-2415-5	BH24-07 0ft	Total/NA	Solid	8021B	2829
885-2415-6	BH24-07 2ft	Total/NA	Solid	8021B	2829
MB 885-2829/1-A	Method Blank	Total/NA	Solid	8021B	2829
MB 885-2894/1-A	Method Blank	Total/NA	Solid	8021B	2894
LCS 885-2829/3-A	Lab Control Sample	Total/NA	Solid	8021B	2829

GC Semi VOA

Prep Batch: 2977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2415-1	BH24-03 0ft	Total/NA	Solid	SHAKE	
885-2415-2	BH24-03 2ft	Total/NA	Solid	SHAKE	
885-2415-3	BH24-06 2ft	Total/NA	Solid	SHAKE	
885-2415-4	BH24-06 4ft	Total/NA	Solid	SHAKE	
885-2415-5	BH24-07 0ft	Total/NA	Solid	SHAKE	
885-2415-6	BH24-07 2ft	Total/NA	Solid	SHAKE	
MB 885-2977/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-2977/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2415-6 MS	BH24-07 2ft	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

GC Semi VOA (Continued)

Prep Batch: 2977 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2415-6 MSD	BH24-07 2ft	Total/NA	Solid	SHAKE	

Analysis Batch: 2992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2415-1	BH24-03 0ft	Total/NA	Solid	8015D	2977
885-2415-2	BH24-03 2ft	Total/NA	Solid	8015D	2977
885-2415-3	BH24-06 2ft	Total/NA	Solid	8015D	2977
885-2415-4	BH24-06 4ft	Total/NA	Solid	8015D	2977
885-2415-5	BH24-07 0ft	Total/NA	Solid	8015D	2977
885-2415-6	BH24-07 2ft	Total/NA	Solid	8015D	2977
MB 885-2977/1-A	Method Blank	Total/NA	Solid	8015D	2977
LCS 885-2977/2-A	Lab Control Sample	Total/NA	Solid	8015D	2977
885-2415-6 MS	BH24-07 2ft	Total/NA	Solid	8015D	2977
885-2415-6 MSD	BH24-07 2ft	Total/NA	Solid	8015D	2977

HPLC/IC

Leach Batch: 77760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2415-1	BH24-03 0ft	Soluble	Solid	DI Leach	
885-2415-2	BH24-03 2ft	Soluble	Solid	DI Leach	
885-2415-3	BH24-06 2ft	Soluble	Solid	DI Leach	
885-2415-4	BH24-06 4ft	Soluble	Solid	DI Leach	
885-2415-5	BH24-07 0ft	Soluble	Solid	DI Leach	
885-2415-6	BH24-07 2ft	Soluble	Solid	DI Leach	
MB 880-77760/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-77760/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-77760/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 77797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2415-1	BH24-03 0ft	Soluble	Solid	300.0	77760
885-2415-2	BH24-03 2ft	Soluble	Solid	300.0	77760
885-2415-3	BH24-06 2ft	Soluble	Solid	300.0	77760
885-2415-4	BH24-06 4ft	Soluble	Solid	300.0	77760
885-2415-5	BH24-07 0ft	Soluble	Solid	300.0	77760
885-2415-6	BH24-07 2ft	Soluble	Solid	300.0	77760
MB 880-77760/1-A	Method Blank	Soluble	Solid	300.0	77760
LCS 880-77760/2-A	Lab Control Sample	Soluble	Solid	300.0	77760
LCSD 880-77760/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	77760

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Client Sample ID: BH24-03 0ft

Lab Sample ID: 885-2415-1

Date Collected: 04/02/24 10:00

Matrix: Solid

Date Received: 04/05/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			2829	JP	EET ALB	04/05/24 11:52
Total/NA	Analysis	8015D		1	2942	JP	EET ALB	04/09/24 03:45
Total/NA	Prep	5030C			2829	JP	EET ALB	04/05/24 11:52
Total/NA	Analysis	8021B		1	2943	JP	EET ALB	04/09/24 03:45
Total/NA	Prep	SHAKE			2977	JU	EET ALB	04/09/24 13:26
Total/NA	Analysis	8015D		1	2992	JU	EET ALB	04/09/24 19:19
Soluble	Leach	DI Leach			77760	SA	EET MID	04/09/24 14:40
Soluble	Analysis	300.0		1	77797	SMC	EET MID	04/10/24 13:31

Client Sample ID: BH24-03 2ft

Lab Sample ID: 885-2415-2

Date Collected: 04/02/24 10:30

Matrix: Solid

Date Received: 04/05/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			2829	JP	EET ALB	04/05/24 11:52
Total/NA	Analysis	8015D		1	2942	JP	EET ALB	04/09/24 04:08
Total/NA	Prep	5030C			2829	JP	EET ALB	04/05/24 11:52
Total/NA	Analysis	8021B		1	2943	JP	EET ALB	04/09/24 04:08
Total/NA	Prep	SHAKE			2977	JU	EET ALB	04/09/24 13:26
Total/NA	Analysis	8015D		1	2992	JU	EET ALB	04/09/24 19:32
Soluble	Leach	DI Leach			77760	SA	EET MID	04/09/24 14:40
Soluble	Analysis	300.0		5	77797	SMC	EET MID	04/10/24 13:36

Client Sample ID: BH24-06 2ft

Lab Sample ID: 885-2415-3

Date Collected: 04/02/24 13:00

Matrix: Solid

Date Received: 04/05/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			2829	JP	EET ALB	04/05/24 11:52
Total/NA	Analysis	8015D		1	2942	JP	EET ALB	04/09/24 04:32
Total/NA	Prep	5030C			2829	JP	EET ALB	04/05/24 11:52
Total/NA	Analysis	8021B		1	2943	JP	EET ALB	04/09/24 04:32
Total/NA	Prep	SHAKE			2977	JU	EET ALB	04/09/24 13:26
Total/NA	Analysis	8015D		1	2992	JU	EET ALB	04/09/24 19:44
Soluble	Leach	DI Leach			77760	SA	EET MID	04/09/24 14:40
Soluble	Analysis	300.0		5	77797	SMC	EET MID	04/10/24 13:41

Client Sample ID: BH24-06 4ft

Lab Sample ID: 885-2415-4

Date Collected: 04/02/24 13:15

Matrix: Solid

Date Received: 04/05/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			2829	JP	EET ALB	04/05/24 11:52
Total/NA	Analysis	8015D		1	2942	JP	EET ALB	04/09/24 04:56

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Client Sample ID: BH24-06 4ft
Date Collected: 04/02/24 13:15
Date Received: 04/05/24 07:55

Lab Sample ID: 885-2415-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			2829	JP	EET ALB	04/05/24 11:52
Total/NA	Analysis	8021B		1	2943	JP	EET ALB	04/09/24 04:56
Total/NA	Prep	SHAKE			2977	JU	EET ALB	04/09/24 13:26
Total/NA	Analysis	8015D		1	2992	JU	EET ALB	04/09/24 19:56
Soluble	Leach	DI Leach			77760	SA	EET MID	04/09/24 14:40
Soluble	Analysis	300.0		5	77797	SMC	EET MID	04/10/24 13:46

Client Sample ID: BH24-07 0ft
Date Collected: 04/02/24 14:00
Date Received: 04/05/24 07:55

Lab Sample ID: 885-2415-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			2829	JP	EET ALB	04/05/24 11:52
Total/NA	Analysis	8015D		1	2942	JP	EET ALB	04/09/24 05:19
Total/NA	Prep	5030C			2829	JP	EET ALB	04/05/24 11:52
Total/NA	Analysis	8021B		1	2943	JP	EET ALB	04/09/24 05:19
Total/NA	Prep	SHAKE			2977	JU	EET ALB	04/09/24 13:26
Total/NA	Analysis	8015D		1	2992	JU	EET ALB	04/09/24 20:09
Soluble	Leach	DI Leach			77760	SA	EET MID	04/09/24 14:40
Soluble	Analysis	300.0		5	77797	SMC	EET MID	04/10/24 13:50

Client Sample ID: BH24-07 2ft
Date Collected: 04/02/24 14:15
Date Received: 04/05/24 07:55

Lab Sample ID: 885-2415-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			2829	JP	EET ALB	04/05/24 11:52
Total/NA	Analysis	8015D		1	2942	JP	EET ALB	04/09/24 05:43
Total/NA	Prep	5030C			2829	JP	EET ALB	04/05/24 11:52
Total/NA	Analysis	8021B		1	2943	JP	EET ALB	04/09/24 05:43
Total/NA	Prep	SHAKE			2977	JU	EET ALB	04/09/24 13:26
Total/NA	Analysis	8015D		1	2992	JU	EET ALB	04/09/24 20:21
Soluble	Leach	DI Leach			77760	SA	EET MID	04/09/24 14:40
Soluble	Analysis	300.0		5	77797	SMC	EET MID	04/10/24 13:55

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-2415-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-2415-1

Login Number: 2415

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-2415-1

Login Number: 2415
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 04/09/24 01:30 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carter
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 4/16/2024 4:15:11 PM

JOB DESCRIPTION

PLU 20-8 BD 104H

JOB NUMBER

885-2704-1



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
Andy Freeman, Business Unit Manager
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(505)345-3975

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Client: Vertex
Project/Site: PLU 20-8 BD 104H

Laboratory Job ID: 885-2704-1

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Definitions/Glossary

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: PLU 20-8 BD 104H

Job ID: 885-2704-1

Job ID: 885-2704-1

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Job Narrative 885-2704-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/11/2024 7:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

Client Sample ID: BH24-09 0'

Lab Sample ID: 885-2704-1

Date Collected: 04/05/24 12:00

Matrix: Solid

Date Received: 04/11/24 07:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/11/24 13:02	04/12/24 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244	04/11/24 13:02	04/12/24 18:32	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/11/24 13:02	04/12/24 18:32	1
Ethylbenzene	ND		0.050	mg/Kg		04/11/24 13:02	04/12/24 18:32	1
Toluene	ND		0.050	mg/Kg		04/11/24 13:02	04/12/24 18:32	1
Xylenes, Total	ND		0.10	mg/Kg		04/11/24 13:02	04/12/24 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146	04/11/24 13:02	04/12/24 18:32	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		04/11/24 14:31	04/12/24 15:58	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/11/24 14:31	04/12/24 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134	04/11/24 14:31	04/12/24 15:58	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		60	mg/Kg		04/12/24 07:53	04/12/24 09:34	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

Client Sample ID: BH24-09 2'

Lab Sample ID: 885-2704-2

Date Collected: 04/05/24 12:05

Matrix: Solid

Date Received: 04/11/24 07:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/11/24 13:02	04/12/24 19:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 244			04/11/24 13:02	04/12/24 19:42	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/11/24 13:02	04/12/24 19:42	1
Ethylbenzene	ND		0.049	mg/Kg		04/11/24 13:02	04/12/24 19:42	1
Toluene	ND		0.049	mg/Kg		04/11/24 13:02	04/12/24 19:42	1
Xylenes, Total	ND		0.098	mg/Kg		04/11/24 13:02	04/12/24 19:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/11/24 13:02	04/12/24 19:42	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		04/11/24 14:31	04/12/24 16:22	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/11/24 14:31	04/12/24 16:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	133		62 - 134			04/11/24 14:31	04/12/24 16:22	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		60	mg/Kg		04/12/24 07:53	04/12/24 10:19	20

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

Client Sample ID: BH24-10 0'

Lab Sample ID: 885-2704-3

Date Collected: 04/05/24 12:10

Matrix: Solid

Date Received: 04/11/24 07:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/11/24 13:02	04/12/24 20:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244			04/11/24 13:02	04/12/24 20:53	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/11/24 13:02	04/12/24 20:53	1
Ethylbenzene	ND		0.047	mg/Kg		04/11/24 13:02	04/12/24 20:53	1
Toluene	ND		0.047	mg/Kg		04/11/24 13:02	04/12/24 20:53	1
Xylenes, Total	ND		0.095	mg/Kg		04/11/24 13:02	04/12/24 20:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		39 - 146			04/11/24 13:02	04/12/24 20:53	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		04/11/24 14:31	04/12/24 16:46	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/11/24 14:31	04/12/24 16:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	82		62 - 134			04/11/24 14:31	04/12/24 16:46	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85		60	mg/Kg		04/12/24 07:53	04/12/24 13:06	20

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

Client Sample ID: BH24-10 2'

Lab Sample ID: 885-2704-4

Date Collected: 04/05/24 12:15

Matrix: Solid

Date Received: 04/11/24 07:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/11/24 13:02	04/12/24 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 244	04/11/24 13:02	04/12/24 21:16	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/11/24 13:02	04/12/24 21:16	1
Ethylbenzene	ND		0.048	mg/Kg		04/11/24 13:02	04/12/24 21:16	1
Toluene	ND		0.048	mg/Kg		04/11/24 13:02	04/12/24 21:16	1
Xylenes, Total	ND		0.096	mg/Kg		04/11/24 13:02	04/12/24 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146	04/11/24 13:02	04/12/24 21:16	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		04/11/24 14:31	04/12/24 17:10	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/11/24 14:31	04/12/24 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	69		62 - 134	04/11/24 14:31	04/12/24 17:10	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85		60	mg/Kg		04/12/24 07:53	04/12/24 13:21	20

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QC Sample Results

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-3124/1-A

Matrix: Solid

Analysis Batch: 3291

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3124

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/11/24 13:02	04/12/24 15:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 244			04/11/24 13:02	04/12/24 15:25	1

Lab Sample ID: LCS 885-3124/2-A

Matrix: Solid

Analysis Batch: 3291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	25.5		mg/Kg		102	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	209		15 - 244				

Lab Sample ID: 885-2704-1 MS

Matrix: Solid

Analysis Batch: 3291

Client Sample ID: BH24-09 0'

Prep Type: Total/NA

Prep Batch: 3124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		24.8	27.5		mg/Kg		111	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	223		15 - 244						

Lab Sample ID: 885-2704-1 MSD

Matrix: Solid

Analysis Batch: 3291

Client Sample ID: BH24-09 0'

Prep Type: Total/NA

Prep Batch: 3124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.9	28.2		mg/Kg		113	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	229		15 - 244								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-3124/1-A

Matrix: Solid

Analysis Batch: 3292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3124

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/11/24 13:02	04/12/24 15:25	1
Ethylbenzene	ND		0.050	mg/Kg		04/11/24 13:02	04/12/24 15:25	1
Toluene	ND		0.050	mg/Kg		04/11/24 13:02	04/12/24 15:25	1

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QC Sample Results

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-3124/1-A

Matrix: Solid

Analysis Batch: 3292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3124

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		04/11/24 13:02	04/12/24 15:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		39 - 146			04/11/24 13:02	04/12/24 15:25	1

Lab Sample ID: LCS 885-3124/3-A

Matrix: Solid

Analysis Batch: 3292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.805		mg/Kg		80	70 - 130
Ethylbenzene	1.00	0.832		mg/Kg		83	70 - 130
m,p-Xylene	2.00	1.69		mg/Kg		84	70 - 130
o-Xylene	1.00	0.825		mg/Kg		82	70 - 130
Toluene	1.00	0.816		mg/Kg		82	70 - 130
Xylenes, Total	3.00	2.51		mg/Kg		84	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	87		39 - 146				

Lab Sample ID: 885-2704-2 MS

Matrix: Solid

Analysis Batch: 3292

Client Sample ID: BH24-09 2'

Prep Type: Total/NA

Prep Batch: 3124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.979	0.845		mg/Kg		86	70 - 130
Ethylbenzene	ND		0.979	0.879		mg/Kg		90	70 - 130
m,p-Xylene	ND		1.96	1.79		mg/Kg		91	70 - 130
o-Xylene	ND		0.979	0.873		mg/Kg		89	70 - 130
Toluene	ND		0.979	0.861		mg/Kg		88	70 - 130
Xylenes, Total	ND		2.94	2.66		mg/Kg		91	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	90		39 - 146						

Lab Sample ID: 885-2704-2 MSD

Matrix: Solid

Analysis Batch: 3292

Client Sample ID: BH24-09 2'

Prep Type: Total/NA

Prep Batch: 3124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.978	0.869		mg/Kg		89	70 - 130	3	20
Ethylbenzene	ND		0.978	0.909		mg/Kg		93	70 - 130	3	20
m,p-Xylene	ND		1.96	1.83		mg/Kg		93	70 - 130	2	20
o-Xylene	ND		0.978	0.899		mg/Kg		92	70 - 130	3	20
Toluene	ND		0.978	0.888		mg/Kg		91	70 - 130	3	20
Xylenes, Total	ND		2.94	2.72		mg/Kg		93	70 - 130	2	20

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QC Sample Results

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-2704-2 MSD

Matrix: Solid

Analysis Batch: 3292

Client Sample ID: BH24-09 2'

Prep Type: Total/NA

Prep Batch: 3124

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		39 - 146

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-3140/1-A

Matrix: Solid

Analysis Batch: 3263

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3140

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/11/24 14:31	04/12/24 11:10	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/11/24 14:31	04/12/24 11:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134			04/11/24 14:31	04/12/24 11:10	1

Lab Sample ID: LCS 885-3140/2-A

Matrix: Solid

Analysis Batch: 3263

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	52.3		mg/Kg		105	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	102		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-3159/1-A

Matrix: Solid

Analysis Batch: 3227

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3159

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		04/12/24 07:53	04/12/24 09:03	1

Lab Sample ID: LCS 885-3159/2-A

Matrix: Solid

Analysis Batch: 3227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.1		mg/Kg		94	90 - 110

Lab Sample ID: 885-2704-1 MS

Matrix: Solid

Analysis Batch: 3227

Client Sample ID: BH24-09 0'

Prep Type: Total/NA

Prep Batch: 3159

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	120		29.9	140		mg/Kg		76	50 - 150

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QC Sample Results

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-2704-1 MSD							Client Sample ID: BH24-09 0'				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 3227							Prep Batch: 3159				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	120		30.3	152		mg/Kg		116	50 - 150	8	20

Lab Sample ID: 885-2704-2 MS							Client Sample ID: BH24-09 2'				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 3227							Prep Batch: 3159				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	130		30.1	154	4	mg/Kg		80	50 - 150		

Lab Sample ID: 885-2704-2 MSD							Client Sample ID: BH24-09 2'				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 3227							Prep Batch: 3159				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	130		30.0	154	4	mg/Kg		81	50 - 150	0	20

QC Association Summary

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

GC VOA

Prep Batch: 3124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2704-1	BH24-09 0'	Total/NA	Solid	5030C	
885-2704-2	BH24-09 2'	Total/NA	Solid	5030C	
885-2704-3	BH24-10 0'	Total/NA	Solid	5030C	
885-2704-4	BH24-10 2'	Total/NA	Solid	5030C	
MB 885-3124/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3124/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3124/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-2704-1 MS	BH24-09 0'	Total/NA	Solid	5030C	
885-2704-1 MSD	BH24-09 0'	Total/NA	Solid	5030C	
885-2704-2 MS	BH24-09 2'	Total/NA	Solid	5030C	
885-2704-2 MSD	BH24-09 2'	Total/NA	Solid	5030C	

Analysis Batch: 3291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2704-1	BH24-09 0'	Total/NA	Solid	8015D	3124
885-2704-2	BH24-09 2'	Total/NA	Solid	8015D	3124
885-2704-3	BH24-10 0'	Total/NA	Solid	8015D	3124
885-2704-4	BH24-10 2'	Total/NA	Solid	8015D	3124
MB 885-3124/1-A	Method Blank	Total/NA	Solid	8015D	3124
LCS 885-3124/2-A	Lab Control Sample	Total/NA	Solid	8015D	3124
885-2704-1 MS	BH24-09 0'	Total/NA	Solid	8015D	3124
885-2704-1 MSD	BH24-09 0'	Total/NA	Solid	8015D	3124

Analysis Batch: 3292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2704-1	BH24-09 0'	Total/NA	Solid	8021B	3124
885-2704-2	BH24-09 2'	Total/NA	Solid	8021B	3124
885-2704-3	BH24-10 0'	Total/NA	Solid	8021B	3124
885-2704-4	BH24-10 2'	Total/NA	Solid	8021B	3124
MB 885-3124/1-A	Method Blank	Total/NA	Solid	8021B	3124
LCS 885-3124/3-A	Lab Control Sample	Total/NA	Solid	8021B	3124
885-2704-2 MS	BH24-09 2'	Total/NA	Solid	8021B	3124
885-2704-2 MSD	BH24-09 2'	Total/NA	Solid	8021B	3124

GC Semi VOA

Prep Batch: 3140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2704-1	BH24-09 0'	Total/NA	Solid	SHAKE	
885-2704-2	BH24-09 2'	Total/NA	Solid	SHAKE	
885-2704-3	BH24-10 0'	Total/NA	Solid	SHAKE	
885-2704-4	BH24-10 2'	Total/NA	Solid	SHAKE	
MB 885-3140/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3140/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 3263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2704-1	BH24-09 0'	Total/NA	Solid	8015D	3140
885-2704-2	BH24-09 2'	Total/NA	Solid	8015D	3140
885-2704-3	BH24-10 0'	Total/NA	Solid	8015D	3140
885-2704-4	BH24-10 2'	Total/NA	Solid	8015D	3140

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

GC Semi VOA (Continued)

Analysis Batch: 3263 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-3140/1-A	Method Blank	Total/NA	Solid	8015D	3140
LCS 885-3140/2-A	Lab Control Sample	Total/NA	Solid	8015D	3140

HPLC/IC

Prep Batch: 3159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2704-1	BH24-09 0'	Total/NA	Solid	300_Prep	
885-2704-2	BH24-09 2'	Total/NA	Solid	300_Prep	
885-2704-3	BH24-10 0'	Total/NA	Solid	300_Prep	
885-2704-4	BH24-10 2'	Total/NA	Solid	300_Prep	
MB 885-3159/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3159/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-2704-1 MS	BH24-09 0'	Total/NA	Solid	300_Prep	
885-2704-1 MSD	BH24-09 0'	Total/NA	Solid	300_Prep	
885-2704-2 MS	BH24-09 2'	Total/NA	Solid	300_Prep	
885-2704-2 MSD	BH24-09 2'	Total/NA	Solid	300_Prep	

Analysis Batch: 3227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2704-1	BH24-09 0'	Total/NA	Solid	300.0	3159
885-2704-2	BH24-09 2'	Total/NA	Solid	300.0	3159
885-2704-3	BH24-10 0'	Total/NA	Solid	300.0	3159
885-2704-4	BH24-10 2'	Total/NA	Solid	300.0	3159
MB 885-3159/1-A	Method Blank	Total/NA	Solid	300.0	3159
LCS 885-3159/2-A	Lab Control Sample	Total/NA	Solid	300.0	3159
885-2704-1 MS	BH24-09 0'	Total/NA	Solid	300.0	3159
885-2704-1 MSD	BH24-09 0'	Total/NA	Solid	300.0	3159
885-2704-2 MS	BH24-09 2'	Total/NA	Solid	300.0	3159
885-2704-2 MSD	BH24-09 2'	Total/NA	Solid	300.0	3159

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

Client Sample ID: BH24-09 0'

Date Collected: 04/05/24 12:00

Date Received: 04/11/24 07:50

Lab Sample ID: 885-2704-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8015D		1	3291	JP	EET ALB	04/12/24 18:32
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8021B		1	3292	JP	EET ALB	04/12/24 18:32
Total/NA	Prep	SHAKE			3140	JU	EET ALB	04/11/24 14:31
Total/NA	Analysis	8015D		1	3263	JU	EET ALB	04/12/24 15:58
Total/NA	Prep	300_Prep			3159	JT	EET ALB	04/12/24 07:53
Total/NA	Analysis	300.0		20	3227	RC	EET ALB	04/12/24 09:34

Client Sample ID: BH24-09 2'

Date Collected: 04/05/24 12:05

Date Received: 04/11/24 07:50

Lab Sample ID: 885-2704-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8015D		1	3291	JP	EET ALB	04/12/24 19:42
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8021B		1	3292	JP	EET ALB	04/12/24 19:42
Total/NA	Prep	SHAKE			3140	JU	EET ALB	04/11/24 14:31
Total/NA	Analysis	8015D		1	3263	JU	EET ALB	04/12/24 16:22
Total/NA	Prep	300_Prep			3159	JT	EET ALB	04/12/24 07:53
Total/NA	Analysis	300.0		20	3227	RC	EET ALB	04/12/24 10:19

Client Sample ID: BH24-10 0'

Date Collected: 04/05/24 12:10

Date Received: 04/11/24 07:50

Lab Sample ID: 885-2704-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8015D		1	3291	JP	EET ALB	04/12/24 20:53
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8021B		1	3292	JP	EET ALB	04/12/24 20:53
Total/NA	Prep	SHAKE			3140	JU	EET ALB	04/11/24 14:31
Total/NA	Analysis	8015D		1	3263	JU	EET ALB	04/12/24 16:46
Total/NA	Prep	300_Prep			3159	JT	EET ALB	04/12/24 07:53
Total/NA	Analysis	300.0		20	3227	RC	EET ALB	04/12/24 13:06

Client Sample ID: BH24-10 2'

Date Collected: 04/05/24 12:15

Date Received: 04/11/24 07:50

Lab Sample ID: 885-2704-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8015D		1	3291	JP	EET ALB	04/12/24 21:16

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

Client Sample ID: BH24-10 2'
Date Collected: 04/05/24 12:15
Date Received: 04/11/24 07:50

Lab Sample ID: 885-2704-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8021B		1	3292	JP	EET ALB	04/12/24 21:16
Total/NA	Prep	SHAKE			3140	JU	EET ALB	04/11/24 14:31
Total/NA	Analysis	8015D		1	3263	JU	EET ALB	04/12/24 17:10
Total/NA	Prep	300_Prep			3159	JT	EET ALB	04/12/24 07:53
Total/NA	Analysis	300.0		20	3227	RC	EET ALB	04/12/24 13:21

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Accreditation/Certification Summary

Client: Vertex
Project/Site: PLU 20-8 BD 104H

Job ID: 885-2704-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-25

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-2704-1

Login Number: 2704

List Number: 1

Creator: Proctor, Nancy

List Source: Eurofins Albuquerque

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

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JOB DESCRIPTION

PLU 20-8 Brushy Draw 104H

JOB NUMBER

885-5206-1



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
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(505)345-3975

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Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Laboratory Job ID: 885-5206-1

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Definitions/Glossary

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Job ID: 885-5206-1

Eurofins Albuquerque

Job Narrative 885-5206-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/29/2024 7:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

Gasoline Range Organics

Method 8015D_GRO: Internal standard responses were outside of acceptance limits for the following sample: BH24-24 2.0' (885-5206-10). The sample(s) shows evidence of matrix interference.

Method 8015D_GRO: Internal standard responses were outside of acceptance limits for the following sample: BH24-24 0.0' (885-5206-9). The sample(s) shows evidence of matrix interference.

Method 8015D_GRO: The following sample was diluted due to the nature of the sample matrix: BH24-24 0.0' (885-5206-9). Elevated reporting limits (RLs) are provided.

Method 8015D_GRO: The following sample was diluted due to the nature of the sample matrix: BH24-28 0.0' (885-5206-17). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

Method 8021B: The following samples were diluted due to the nature of the sample matrix: BH24-24 0.0' (885-5206-9) and BH24-28 0.0' (885-5206-17). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D_DRO: The following samples were diluted due to the nature of the sample matrix: BH24-23 0.0' (885-5206-7), BH24-23 2.0' (885-5206-8), BH24-24 0.0' (885-5206-9), BH24-24 2.0' (885-5206-10) and BH24-28 0.0' (885-5206-17). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-20 0.0'

Lab Sample ID: 885-5206-1

Date Collected: 05/24/24 09:40

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		05/29/24 14:32	06/03/24 19:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/29/24 14:32	06/03/24 19:24	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/29/24 14:32	06/03/24 19:24	1
Ethylbenzene	ND		0.047	mg/Kg		05/29/24 14:32	06/03/24 19:24	1
Toluene	ND		0.047	mg/Kg		05/29/24 14:32	06/03/24 19:24	1
Xylenes, Total	ND		0.093	mg/Kg		05/29/24 14:32	06/03/24 19:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/29/24 14:32	06/03/24 19:24	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	65		9.8	mg/Kg		05/30/24 14:51	05/31/24 15:22	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/30/24 14:51	05/31/24 15:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/30/24 14:51	05/31/24 15:22	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1800		60	mg/Kg		05/31/24 07:03	05/31/24 11:37	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-20 2.0'

Lab Sample ID: 885-5206-2

Date Collected: 05/24/24 09:45

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/29/24 14:32	06/03/24 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			05/29/24 14:32	06/03/24 19:48	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/29/24 14:32	06/03/24 19:48	1
Ethylbenzene	ND		0.048	mg/Kg		05/29/24 14:32	06/03/24 19:48	1
Toluene	ND		0.048	mg/Kg		05/29/24 14:32	06/03/24 19:48	1
Xylenes, Total	ND		0.096	mg/Kg		05/29/24 14:32	06/03/24 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			05/29/24 14:32	06/03/24 19:48	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		05/30/24 14:51	05/31/24 15:33	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/30/24 14:51	05/31/24 15:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134			05/30/24 14:51	05/31/24 15:33	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		60	mg/Kg		05/31/24 07:03	05/31/24 11:49	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-21 0.0'

Lab Sample ID: 885-5206-3

Date Collected: 05/24/24 09:55

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		05/29/24 14:32	06/03/24 20:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/29/24 14:32	06/03/24 20:11	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/29/24 14:32	06/03/24 20:11	1
Ethylbenzene	ND		0.047	mg/Kg		05/29/24 14:32	06/03/24 20:11	1
Toluene	ND		0.047	mg/Kg		05/29/24 14:32	06/03/24 20:11	1
Xylenes, Total	ND		0.094	mg/Kg		05/29/24 14:32	06/03/24 20:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/29/24 14:32	06/03/24 20:11	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	81		9.9	mg/Kg		05/30/24 14:51	05/31/24 15:44	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/30/24 14:51	05/31/24 15:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			05/30/24 14:51	05/31/24 15:44	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		60	mg/Kg		05/31/24 07:03	05/31/24 12:01	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-21 2.0'

Lab Sample ID: 885-5206-4

Date Collected: 05/24/24 10:00

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/30/24 10:27	06/05/24 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			05/30/24 10:27	06/05/24 00:28	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 10:27	06/05/24 00:28	1
Ethylbenzene	ND		0.050	mg/Kg		05/30/24 10:27	06/05/24 00:28	1
Toluene	ND		0.050	mg/Kg		05/30/24 10:27	06/05/24 00:28	1
Xylenes, Total	ND		0.099	mg/Kg		05/30/24 10:27	06/05/24 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			05/30/24 10:27	06/05/24 00:28	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13		9.2	mg/Kg		05/30/24 12:06	05/31/24 17:34	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/30/24 12:06	05/31/24 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			05/30/24 12:06	05/31/24 17:34	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	480		60	mg/Kg		05/30/24 14:06	05/30/24 22:11	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-22 0.0'

Lab Sample ID: 885-5206-5

Date Collected: 05/24/24 10:05

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 10:27	06/05/24 00:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			05/30/24 10:27	06/05/24 00:52	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 10:27	06/05/24 00:52	1
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 10:27	06/05/24 00:52	1
Toluene	ND		0.049	mg/Kg		05/30/24 10:27	06/05/24 00:52	1
Xylenes, Total	ND		0.099	mg/Kg		05/30/24 10:27	06/05/24 00:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145			05/30/24 10:27	06/05/24 00:52	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	280		9.7	mg/Kg		05/30/24 12:06	05/31/24 18:08	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/30/24 12:06	05/31/24 18:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/30/24 12:06	05/31/24 18:08	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		60	mg/Kg		05/30/24 14:06	05/30/24 22:24	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-22 2.0'

Lab Sample ID: 885-5206-6

Date Collected: 05/24/24 10:15

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/30/24 10:27	06/05/24 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			05/30/24 10:27	06/05/24 01:15	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/30/24 10:27	06/05/24 01:15	1
Ethylbenzene	ND		0.048	mg/Kg		05/30/24 10:27	06/05/24 01:15	1
Toluene	ND		0.048	mg/Kg		05/30/24 10:27	06/05/24 01:15	1
Xylenes, Total	ND		0.096	mg/Kg		05/30/24 10:27	06/05/24 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/30/24 10:27	06/05/24 01:15	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		05/30/24 12:06	05/31/24 18:19	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/30/24 12:06	05/31/24 18:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			05/30/24 12:06	05/31/24 18:19	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		60	mg/Kg		05/30/24 14:06	05/30/24 22:36	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-23 0.0'

Lab Sample ID: 885-5206-7

Date Collected: 05/24/24 10:20

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22		4.8	mg/Kg		05/30/24 10:27	06/05/24 23:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	236	S1+	35 - 166			05/30/24 10:27	06/05/24 23:38	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/30/24 10:27	06/05/24 23:38	1
Ethylbenzene	0.060		0.048	mg/Kg		05/30/24 10:27	06/05/24 23:38	1
Toluene	ND		0.048	mg/Kg		05/30/24 10:27	06/05/24 23:38	1
Xylenes, Total	0.34		0.095	mg/Kg		05/30/24 10:27	06/05/24 23:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			05/30/24 10:27	06/05/24 23:38	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	19000		450	mg/Kg		05/30/24 12:06	06/03/24 14:39	50
Motor Oil Range Organics [C28-C40]	ND	D	2300	mg/Kg		05/30/24 12:06	06/03/24 14:39	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			05/30/24 12:06	06/03/24 14:39	50

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		60	mg/Kg		05/30/24 14:06	05/30/24 23:38	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-23 2.0'

Lab Sample ID: 885-5206-8

Date Collected: 05/24/24 10:30

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 10:27	06/05/24 02:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/30/24 10:27	06/05/24 02:02	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/30/24 10:27	06/05/24 02:02	1
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 10:27	06/05/24 02:02	1
Toluene	ND		0.049	mg/Kg		05/30/24 10:27	06/05/24 02:02	1
Xylenes, Total	ND		0.097	mg/Kg		05/30/24 10:27	06/05/24 02:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/30/24 10:27	06/05/24 02:02	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1300		49	mg/Kg		05/30/24 12:06	06/03/24 14:50	5
Motor Oil Range Organics [C28-C40]	ND	D	240	mg/Kg		05/30/24 12:06	06/03/24 14:50	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			05/30/24 12:06	06/03/24 14:50	5

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	650		60	mg/Kg		05/30/24 14:06	05/30/24 23:50	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-24 0.0'

Lab Sample ID: 885-5206-9

Date Collected: 05/24/24 10:35

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46		9.4	mg/Kg		05/30/24 10:27	06/05/24 22:51	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	233	S1+	35 - 166			05/30/24 10:27	06/05/24 22:51	2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.047	mg/Kg		05/30/24 10:27	06/05/24 22:51	2
Ethylbenzene	0.13		0.094	mg/Kg		05/30/24 10:27	06/05/24 22:51	2
Toluene	ND		0.094	mg/Kg		05/30/24 10:27	06/05/24 22:51	2
Xylenes, Total	0.98		0.19	mg/Kg		05/30/24 10:27	06/05/24 22:51	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145			05/30/24 10:27	06/05/24 22:51	2

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16000		180	mg/Kg		05/30/24 12:06	06/03/24 15:01	20
Motor Oil Range Organics [C28-C40]	ND	D	910	mg/Kg		05/30/24 12:06	06/03/24 15:01	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			05/30/24 12:06	06/03/24 15:01	20

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470		59	mg/Kg		05/30/24 14:06	05/31/24 00:02	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-24 2.0'

Lab Sample ID: 885-5206-10

Date Collected: 05/24/24 10:45

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46		9.5	mg/Kg		05/30/24 10:27	06/05/24 02:49	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	209	S1+	35 - 166			05/30/24 10:27	06/05/24 02:49	2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.047	mg/Kg		05/30/24 10:27	06/05/24 02:49	2
Ethylbenzene	ND		0.095	mg/Kg		05/30/24 10:27	06/05/24 02:49	2
Toluene	ND		0.095	mg/Kg		05/30/24 10:27	06/05/24 02:49	2
Xylenes, Total	0.81		0.19	mg/Kg		05/30/24 10:27	06/05/24 02:49	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			05/30/24 10:27	06/05/24 02:49	2

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11000		190	mg/Kg		05/30/24 12:06	06/03/24 15:12	20
Motor Oil Range Organics [C28-C40]	ND	D	940	mg/Kg		05/30/24 12:06	06/03/24 15:12	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			05/30/24 12:06	06/03/24 15:12	20

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61	mg/Kg		05/30/24 14:06	05/31/24 00:15	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-16 0.0'

Lab Sample ID: 885-5206-11

Date Collected: 05/24/24 14:35

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		05/30/24 10:27	06/05/24 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			05/30/24 10:27	06/05/24 03:13	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/30/24 10:27	06/05/24 03:13	1
Ethylbenzene	ND		0.047	mg/Kg		05/30/24 10:27	06/05/24 03:13	1
Toluene	ND		0.047	mg/Kg		05/30/24 10:27	06/05/24 03:13	1
Xylenes, Total	ND		0.094	mg/Kg		05/30/24 10:27	06/05/24 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			05/30/24 10:27	06/05/24 03:13	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12		9.7	mg/Kg		05/30/24 12:06	05/31/24 19:15	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/30/24 12:06	05/31/24 19:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			05/30/24 12:06	05/31/24 19:15	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	740		60	mg/Kg		05/30/24 14:06	05/31/24 00:27	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-22 3.0'

Lab Sample ID: 885-5206-12

Date Collected: 05/25/24 10:00

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 10:27	06/06/24 03:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			05/30/24 10:27	06/06/24 03:10	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 10:27	06/06/24 03:10	1
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 10:27	06/06/24 03:10	1
Toluene	ND		0.049	mg/Kg		05/30/24 10:27	06/06/24 03:10	1
Xylenes, Total	ND		0.098	mg/Kg		05/30/24 10:27	06/06/24 03:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			05/30/24 10:27	06/06/24 03:10	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/30/24 12:06	05/31/24 19:26	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/30/24 12:06	05/31/24 19:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			05/30/24 12:06	05/31/24 19:26	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/30/24 14:06	05/31/24 01:04	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-22 4.0'

Lab Sample ID: 885-5206-13

Date Collected: 05/25/24 10:25

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/30/24 10:27	06/06/24 03:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/30/24 10:27	06/06/24 03:34	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 10:27	06/06/24 03:34	1
Ethylbenzene	ND		0.050	mg/Kg		05/30/24 10:27	06/06/24 03:34	1
Toluene	ND		0.050	mg/Kg		05/30/24 10:27	06/06/24 03:34	1
Xylenes, Total	ND		0.099	mg/Kg		05/30/24 10:27	06/06/24 03:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/30/24 10:27	06/06/24 03:34	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/30/24 12:06	05/31/24 19:38	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/30/24 12:06	05/31/24 19:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			05/30/24 12:06	05/31/24 19:38	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/30/24 14:06	05/31/24 01:16	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-27 0.0'

Lab Sample ID: 885-5206-14

Date Collected: 05/25/24 10:45

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		05/30/24 10:27	06/06/24 03:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/30/24 10:27	06/06/24 03:57	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/30/24 10:27	06/06/24 03:57	1
Ethylbenzene	ND		0.047	mg/Kg		05/30/24 10:27	06/06/24 03:57	1
Toluene	ND		0.047	mg/Kg		05/30/24 10:27	06/06/24 03:57	1
Xylenes, Total	ND		0.094	mg/Kg		05/30/24 10:27	06/06/24 03:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/30/24 10:27	06/06/24 03:57	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	63		9.6	mg/Kg		05/30/24 12:06	05/31/24 19:49	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/30/24 12:06	05/31/24 19:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			05/30/24 12:06	05/31/24 19:49	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		61	mg/Kg		05/30/24 14:06	05/31/24 01:29	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-16 2.0'
Date Collected: 05/25/24 13:20
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-15
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 10:27	06/06/24 04:20	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	98		35 - 166			05/30/24 10:27	06/06/24 04:20	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		05/30/24 10:27	06/06/24 04:20	1	
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 10:27	06/06/24 04:20	1	
Toluene	ND		0.049	mg/Kg		05/30/24 10:27	06/06/24 04:20	1	
Xylenes, Total	ND		0.098	mg/Kg		05/30/24 10:27	06/06/24 04:20	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	92		48 - 145			05/30/24 10:27	06/06/24 04:20	1	

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		05/30/24 12:06	05/31/24 20:00	1	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/30/24 12:06	05/31/24 20:00	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	99		62 - 134			05/30/24 12:06	05/31/24 20:00	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	140		60	mg/Kg		05/30/24 14:06	05/31/24 02:06	20	

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-27 2.0'

Lab Sample ID: 885-5206-16

Date Collected: 05/25/24 13:40

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/30/24 10:27	06/06/24 04:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			05/30/24 10:27	06/06/24 04:44	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/30/24 10:27	06/06/24 04:44	1
Ethylbenzene	ND		0.048	mg/Kg		05/30/24 10:27	06/06/24 04:44	1
Toluene	ND		0.048	mg/Kg		05/30/24 10:27	06/06/24 04:44	1
Xylenes, Total	ND		0.097	mg/Kg		05/30/24 10:27	06/06/24 04:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			05/30/24 10:27	06/06/24 04:44	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/30/24 12:06	05/31/24 20:11	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/30/24 12:06	05/31/24 20:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			05/30/24 12:06	05/31/24 20:11	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		60	mg/Kg		05/30/24 14:06	05/31/24 02:18	20

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-28 0.0'

Lab Sample ID: 885-5206-17

Date Collected: 05/25/24 10:55

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		9.6	mg/Kg		05/30/24 10:27	06/06/24 05:07	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			05/30/24 10:27	06/06/24 05:07	2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.048	mg/Kg		05/30/24 10:27	06/06/24 05:07	2
Ethylbenzene	ND		0.096	mg/Kg		05/30/24 10:27	06/06/24 05:07	2
Toluene	ND		0.096	mg/Kg		05/30/24 10:27	06/06/24 05:07	2
Xylenes, Total	ND		0.19	mg/Kg		05/30/24 10:27	06/06/24 05:07	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			05/30/24 10:27	06/06/24 05:07	2

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	6400		97	mg/Kg		05/30/24 12:06	06/03/24 15:22	10
Motor Oil Range Organics [C28-C40]	ND	D	480	mg/Kg		05/30/24 12:06	06/03/24 15:22	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			05/30/24 12:06	06/03/24 15:22	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410		60	mg/Kg		05/30/24 14:06	05/31/24 02:30	20

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Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-17 0.0'

Lab Sample ID: 885-5206-18

Date Collected: 05/24/24 14:40

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 10:27	06/06/24 05:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			05/30/24 10:27	06/06/24 05:31	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/30/24 10:27	06/06/24 05:31	1
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 10:27	06/06/24 05:31	1
Toluene	ND		0.049	mg/Kg		05/30/24 10:27	06/06/24 05:31	1
Xylenes, Total	ND		0.097	mg/Kg		05/30/24 10:27	06/06/24 05:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			05/30/24 10:27	06/06/24 05:31	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	270		9.0	mg/Kg		05/30/24 12:06	05/31/24 20:33	1
Motor Oil Range Organics [C28-C40]	57		45	mg/Kg		05/30/24 12:06	05/31/24 20:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			05/30/24 12:06	05/31/24 20:33	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	820		59	mg/Kg		05/30/24 14:06	05/31/24 02:43	20

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-25 0.0'
Date Collected: 05/24/24 14:30
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-19
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 10:27	06/06/24 05:54	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		35 - 166			05/30/24 10:27	06/06/24 05:54	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		05/30/24 10:27	06/06/24 05:54	1	
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 10:27	06/06/24 05:54	1	
Toluene	ND		0.049	mg/Kg		05/30/24 10:27	06/06/24 05:54	1	
Xylenes, Total	ND		0.099	mg/Kg		05/30/24 10:27	06/06/24 05:54	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		48 - 145			05/30/24 10:27	06/06/24 05:54	1	

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	120		9.2	mg/Kg		05/30/24 12:06	05/31/24 20:44	1	
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/30/24 12:06	05/31/24 20:44	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	98		62 - 134			05/30/24 12:06	05/31/24 20:44	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	5700		300	mg/Kg		05/30/24 14:06	05/31/24 12:26	100	

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-26 0.0'

Lab Sample ID: 885-5206-20

Date Collected: 05/24/24 14:25

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 10:27	06/06/24 06:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			05/30/24 10:27	06/06/24 06:17	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 10:27	06/06/24 06:17	1
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 10:27	06/06/24 06:17	1
Toluene	ND		0.049	mg/Kg		05/30/24 10:27	06/06/24 06:17	1
Xylenes, Total	ND		0.099	mg/Kg		05/30/24 10:27	06/06/24 06:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			05/30/24 10:27	06/06/24 06:17	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	250		9.3	mg/Kg		05/30/24 12:06	05/31/24 20:56	1
Motor Oil Range Organics [C28-C40]	220		47	mg/Kg		05/30/24 12:06	05/31/24 20:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			05/30/24 12:06	05/31/24 20:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		60	mg/Kg		05/30/24 14:06	05/31/24 03:07	20

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-29 0.0'

Lab Sample ID: 885-5206-21

Date Collected: 05/26/24 09:00

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/30/24 10:27	06/06/24 07:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/30/24 10:27	06/06/24 07:04	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 10:27	06/06/24 07:04	1
Ethylbenzene	ND		0.050	mg/Kg		05/30/24 10:27	06/06/24 07:04	1
Toluene	ND		0.050	mg/Kg		05/30/24 10:27	06/06/24 07:04	1
Xylenes, Total	ND		0.10	mg/Kg		05/30/24 10:27	06/06/24 07:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			05/30/24 10:27	06/06/24 07:04	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/30/24 12:06	05/31/24 21:07	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/30/24 12:06	05/31/24 21:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	86		62 - 134			05/30/24 12:06	05/31/24 21:07	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		60	mg/Kg		05/30/24 14:06	05/31/24 03:20	20

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-29 2.0'

Lab Sample ID: 885-5206-22

Date Collected: 05/26/24 11:30

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 10:27	06/06/24 07:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			05/30/24 10:27	06/06/24 07:28	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 10:27	06/06/24 07:28	1
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 10:27	06/06/24 07:28	1
Toluene	ND		0.049	mg/Kg		05/30/24 10:27	06/06/24 07:28	1
Xylenes, Total	ND		0.098	mg/Kg		05/30/24 10:27	06/06/24 07:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/30/24 10:27	06/06/24 07:28	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/30/24 12:06	05/31/24 21:18	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/30/24 12:06	05/31/24 21:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			05/30/24 12:06	05/31/24 21:18	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/30/24 14:06	05/31/24 03:32	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-30 0.0'

Lab Sample ID: 885-5206-23

Date Collected: 05/26/24 09:15

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		05/30/24 10:27	06/06/24 07:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			05/30/24 10:27	06/06/24 07:51	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/30/24 10:27	06/06/24 07:51	1
Ethylbenzene	ND		0.047	mg/Kg		05/30/24 10:27	06/06/24 07:51	1
Toluene	ND		0.047	mg/Kg		05/30/24 10:27	06/06/24 07:51	1
Xylenes, Total	ND		0.094	mg/Kg		05/30/24 10:27	06/06/24 07:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/30/24 10:27	06/06/24 07:51	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		05/30/24 12:06	05/31/24 21:29	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		05/30/24 12:06	05/31/24 21:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	80		62 - 134			05/30/24 12:06	05/31/24 21:29	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	340		59	mg/Kg		05/31/24 07:03	05/31/24 12:14	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-30 2.0'

Lab Sample ID: 885-5206-24

Date Collected: 05/26/24 11:55

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/30/24 12:45	06/04/24 12:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/30/24 12:45	06/04/24 12:45	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 12:45	06/04/24 12:45	1
Ethylbenzene	ND		0.050	mg/Kg		05/30/24 12:45	06/04/24 12:45	1
Toluene	ND		0.050	mg/Kg		05/30/24 12:45	06/04/24 12:45	1
Xylenes, Total	ND		0.099	mg/Kg		05/30/24 12:45	06/04/24 12:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/30/24 12:45	06/04/24 12:45	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/30/24 14:54	05/31/24 14:39	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/30/24 14:54	05/31/24 14:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			05/30/24 14:54	05/31/24 14:39	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		60	mg/Kg		05/31/24 08:25	05/31/24 13:28	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-31 0.0'

Lab Sample ID: 885-5206-25

Date Collected: 05/26/24 09:30

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/30/24 12:45	06/04/24 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/30/24 12:45	06/04/24 13:09	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 12:45	06/04/24 13:09	1
Ethylbenzene	ND		0.050	mg/Kg		05/30/24 12:45	06/04/24 13:09	1
Toluene	ND		0.050	mg/Kg		05/30/24 12:45	06/04/24 13:09	1
Xylenes, Total	ND		0.10	mg/Kg		05/30/24 12:45	06/04/24 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/30/24 12:45	06/04/24 13:09	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		06/03/24 15:57	06/04/24 11:54	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		06/03/24 15:57	06/04/24 11:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			06/03/24 15:57	06/04/24 11:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		60	mg/Kg		05/31/24 08:25	05/31/24 14:05	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-31 2.0'

Lab Sample ID: 885-5206-26

Date Collected: 05/26/24 12:25

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 12:45	06/04/24 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			05/30/24 12:45	06/04/24 13:32	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 12:45	06/04/24 13:32	1
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 12:45	06/04/24 13:32	1
Toluene	ND		0.049	mg/Kg		05/30/24 12:45	06/04/24 13:32	1
Xylenes, Total	ND		0.098	mg/Kg		05/30/24 12:45	06/04/24 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145			05/30/24 12:45	06/04/24 13:32	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		05/30/24 14:54	05/31/24 15:30	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		05/30/24 14:54	05/31/24 15:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	75		62 - 134			05/30/24 14:54	05/31/24 15:30	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		60	mg/Kg		05/31/24 08:25	05/31/24 14:42	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-11 0FT

Lab Sample ID: 885-5206-27

Date Collected: 05/24/24 10:00

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/30/24 12:45	06/04/24 13:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/30/24 12:45	06/04/24 13:56	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/30/24 12:45	06/04/24 13:56	1
Ethylbenzene	ND		0.048	mg/Kg		05/30/24 12:45	06/04/24 13:56	1
Toluene	ND		0.048	mg/Kg		05/30/24 12:45	06/04/24 13:56	1
Xylenes, Total	ND		0.096	mg/Kg		05/30/24 12:45	06/04/24 13:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/30/24 12:45	06/04/24 13:56	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	20		9.9	mg/Kg		05/30/24 14:54	05/31/24 15:43	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/30/24 14:54	05/31/24 15:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	86		62 - 134			05/30/24 14:54	05/31/24 15:43	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		60	mg/Kg		05/31/24 08:25	05/31/24 14:54	20

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-11 2FT

Lab Sample ID: 885-5206-28

Date Collected: 05/24/24 10:15

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 12:45	06/04/24 14:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			05/30/24 12:45	06/04/24 14:19	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 12:45	06/04/24 14:19	1
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 12:45	06/04/24 14:19	1
Toluene	ND		0.049	mg/Kg		05/30/24 12:45	06/04/24 14:19	1
Xylenes, Total	ND		0.098	mg/Kg		05/30/24 12:45	06/04/24 14:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/30/24 12:45	06/04/24 14:19	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/30/24 14:54	05/31/24 15:55	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/30/24 14:54	05/31/24 15:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	74		62 - 134			05/30/24 14:54	05/31/24 15:55	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		60	mg/Kg		05/31/24 08:25	05/31/24 15:07	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-12 0FT

Lab Sample ID: 885-5206-29

Date Collected: 05/24/24 10:30

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		05/30/24 12:45	06/04/24 14:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/30/24 12:45	06/04/24 14:43	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/30/24 12:45	06/04/24 14:43	1
Ethylbenzene	ND		0.047	mg/Kg		05/30/24 12:45	06/04/24 14:43	1
Toluene	ND		0.047	mg/Kg		05/30/24 12:45	06/04/24 14:43	1
Xylenes, Total	ND		0.094	mg/Kg		05/30/24 12:45	06/04/24 14:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/30/24 12:45	06/04/24 14:43	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.4	mg/Kg		06/03/24 15:57	06/04/24 12:05	1
Motor Oil Range Organics [C28-C40]	ND		42	mg/Kg		06/03/24 15:57	06/04/24 12:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			06/03/24 15:57	06/04/24 12:05	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		61	mg/Kg		05/31/24 08:25	05/31/24 15:19	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-12 2FT
Date Collected: 05/24/24 10:45
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-30
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/30/24 12:45	06/04/24 15:06	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	98		35 - 166			05/30/24 12:45	06/04/24 15:06	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		05/30/24 12:45	06/04/24 15:06	1	
Ethylbenzene	ND		0.050	mg/Kg		05/30/24 12:45	06/04/24 15:06	1	
Toluene	ND		0.050	mg/Kg		05/30/24 12:45	06/04/24 15:06	1	
Xylenes, Total	ND		0.099	mg/Kg		05/30/24 12:45	06/04/24 15:06	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		48 - 145			05/30/24 12:45	06/04/24 15:06	1	

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/30/24 14:54	05/31/24 16:21	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/30/24 14:54	05/31/24 16:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	80		62 - 134			05/30/24 14:54	05/31/24 16:21	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	130		60	mg/Kg		05/31/24 08:25	05/31/24 15:56	20	

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-13 0FT

Lab Sample ID: 885-5206-31

Date Collected: 05/24/24 11:00

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/30/24 12:45	06/04/24 15:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			05/30/24 12:45	06/04/24 15:30	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 12:45	06/04/24 15:30	1
Ethylbenzene	ND		0.050	mg/Kg		05/30/24 12:45	06/04/24 15:30	1
Toluene	ND		0.050	mg/Kg		05/30/24 12:45	06/04/24 15:30	1
Xylenes, Total	ND		0.10	mg/Kg		05/30/24 12:45	06/04/24 15:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			05/30/24 12:45	06/04/24 15:30	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	52		8.6	mg/Kg		06/03/24 15:57	06/04/24 13:00	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		06/03/24 15:57	06/04/24 13:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	78		62 - 134			06/03/24 15:57	06/04/24 13:00	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	830		60	mg/Kg		05/31/24 08:25	05/31/24 16:08	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-13 2FT

Lab Sample ID: 885-5206-32

Date Collected: 05/24/24 11:15

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 12:45	06/04/24 18:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			05/30/24 12:45	06/04/24 18:37	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 12:45	06/04/24 18:37	1
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 12:45	06/04/24 18:37	1
Toluene	ND		0.049	mg/Kg		05/30/24 12:45	06/04/24 18:37	1
Xylenes, Total	ND		0.098	mg/Kg		05/30/24 12:45	06/04/24 18:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			05/30/24 12:45	06/04/24 18:37	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14		9.2	mg/Kg		06/03/24 15:57	06/04/24 13:11	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/03/24 15:57	06/04/24 13:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	73		62 - 134			06/03/24 15:57	06/04/24 13:11	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370		60	mg/Kg		05/31/24 08:25	05/31/24 16:21	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-14 0FT
Date Collected: 05/24/24 11:30
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-33
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 12:45	06/04/24 19:01	1
Surrogate								
4-Bromofluorobenzene (Surr)	94		35 - 166			05/30/24 12:45	06/04/24 19:01	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 12:45	06/04/24 19:01	1
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 12:45	06/04/24 19:01	1
Toluene	ND		0.049	mg/Kg		05/30/24 12:45	06/04/24 19:01	1
Xylenes, Total	ND		0.098	mg/Kg		05/30/24 12:45	06/04/24 19:01	1
Surrogate								
4-Bromofluorobenzene (Surr)	87		48 - 145			05/30/24 12:45	06/04/24 19:01	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	370		9.3	mg/Kg		05/30/24 14:54	05/31/24 16:59	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/30/24 14:54	05/31/24 16:59	1
Surrogate								
Di-n-octyl phthalate (Surr)	72		62 - 134			05/30/24 14:54	05/31/24 16:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	700		60	mg/Kg		05/31/24 08:25	05/31/24 16:33	20

Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-14 2FT
Date Collected: 05/24/24 11:45
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-34
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 12:45	06/04/24 19:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			05/30/24 12:45	06/04/24 19:24	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/30/24 12:45	06/04/24 19:24	1
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 12:45	06/04/24 19:24	1
Toluene	ND		0.049	mg/Kg		05/30/24 12:45	06/04/24 19:24	1
Xylenes, Total	ND		0.098	mg/Kg		05/30/24 12:45	06/04/24 19:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			05/30/24 12:45	06/04/24 19:24	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/03/24 15:57	06/04/24 13:21	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/03/24 15:57	06/04/24 13:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			06/03/24 15:57	06/04/24 13:21	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		60	mg/Kg		05/31/24 08:25	05/31/24 16:45	20

Client Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-15 0FT

Lab Sample ID: 885-5206-35

Date Collected: 05/24/24 12:00

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/30/24 12:45	06/04/24 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/30/24 12:45	06/04/24 19:48	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 12:45	06/04/24 19:48	1
Ethylbenzene	ND		0.050	mg/Kg		05/30/24 12:45	06/04/24 19:48	1
Toluene	ND		0.050	mg/Kg		05/30/24 12:45	06/04/24 19:48	1
Xylenes, Total	ND		0.099	mg/Kg		05/30/24 12:45	06/04/24 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/30/24 12:45	06/04/24 19:48	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13		9.7	mg/Kg		06/03/24 15:57	06/04/24 13:32	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/03/24 15:57	06/04/24 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134			06/03/24 15:57	06/04/24 13:32	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9100		300	mg/Kg		05/31/24 08:25	06/01/24 08:47	100

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Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-15 2FT
Date Collected: 05/24/24 12:15
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-36
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/30/24 12:45	06/04/24 20:34		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	94		35 - 166			05/30/24 12:45	06/04/24 20:34		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		05/30/24 12:45	06/04/24 20:34		1
Ethylbenzene	ND		0.048	mg/Kg		05/30/24 12:45	06/04/24 20:34		1
Toluene	ND		0.048	mg/Kg		05/30/24 12:45	06/04/24 20:34		1
Xylenes, Total	ND		0.095	mg/Kg		05/30/24 12:45	06/04/24 20:34		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		48 - 145			05/30/24 12:45	06/04/24 20:34		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/30/24 14:54	05/31/24 17:37		1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/30/24 14:54	05/31/24 17:37		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	79		62 - 134			05/30/24 14:54	05/31/24 17:37		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	3200		150	mg/Kg		05/31/24 08:25	06/01/24 08:59		50

Client Sample Results

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-15 2.5FT

Lab Sample ID: 885-5206-37

Date Collected: 05/24/24 12:20

Matrix: Solid

Date Received: 05/29/24 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/30/24 12:45	06/04/24 20:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			05/30/24 12:45	06/04/24 20:58	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 12:45	06/04/24 20:58	1
Ethylbenzene	ND		0.049	mg/Kg		05/30/24 12:45	06/04/24 20:58	1
Toluene	ND		0.049	mg/Kg		05/30/24 12:45	06/04/24 20:58	1
Xylenes, Total	ND		0.098	mg/Kg		05/30/24 12:45	06/04/24 20:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/30/24 12:45	06/04/24 20:58	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		05/30/24 14:54	05/31/24 17:51	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/30/24 14:54	05/31/24 17:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	75		62 - 134			05/30/24 14:54	05/31/24 17:51	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410		60	mg/Kg		05/31/24 08:25	05/31/24 17:22	20

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QC Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-5806/1-A

Matrix: Solid

Analysis Batch: 6025

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5806

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/29/24 14:32	06/03/24 11:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			05/29/24 14:32	06/03/24 11:36	1

Lab Sample ID: LCS 885-5806/2-A

Matrix: Solid

Analysis Batch: 6025

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	25.6		mg/Kg		102	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	207	S1+	35 - 166				

Lab Sample ID: MB 885-5866/1-A

Matrix: Solid

Analysis Batch: 6130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5866

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/30/24 10:27	06/05/24 00:05	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			05/30/24 10:27	06/05/24 00:05	1

Lab Sample ID: LCS 885-5866/2-A

Matrix: Solid

Analysis Batch: 6130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	23.5		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	204	S1+	35 - 166				

Lab Sample ID: 885-5206-4 MS

Matrix: Solid

Analysis Batch: 6156

Client Sample ID: BH24-21 2.0'

Prep Type: Total/NA

Prep Batch: 5866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	20.1		mg/Kg		81	70 - 130

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QC Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-5206-4 MS

Matrix: Solid

Analysis Batch: 6156

Client Sample ID: BH24-21 2.0'

Prep Type: Total/NA

Prep Batch: 5866

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	197	S1+	35 - 166

Lab Sample ID: 885-5206-4 MSD

Matrix: Solid

Analysis Batch: 6156

Client Sample ID: BH24-21 2.0'

Prep Type: Total/NA

Prep Batch: 5866

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	21.1		mg/Kg		85	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	195	S1+	35 - 166								

Lab Sample ID: MB 885-5880/1-A

Matrix: Solid

Analysis Batch: 6130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5880

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/30/24 12:45	06/04/24 11:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			05/30/24 12:45	06/04/24 11:12	1

Lab Sample ID: LCS 885-5880/2-A

Matrix: Solid

Analysis Batch: 6130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	23.9		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	206	S1+	35 - 166				

Lab Sample ID: 885-5206-24 MS

Matrix: Solid

Analysis Batch: 6130

Client Sample ID: BH24-30 2.0'

Prep Type: Total/NA

Prep Batch: 5880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	20.5		mg/Kg		83	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	198	S1+	35 - 166						

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QC Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-5206-24 MSD

Matrix: Solid

Analysis Batch: 6130

Client Sample ID: BH24-30 2.0'

Prep Type: Total/NA

Prep Batch: 5880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	21.6		mg/Kg		87	70 - 130	5	20
Surrogate	%Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	196	S1+	35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-5806/1-A

Matrix: Solid

Analysis Batch: 6078

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5806

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/29/24 14:32	06/03/24 11:36	1
Ethylbenzene	ND		0.050	mg/Kg		05/29/24 14:32	06/03/24 11:36	1
Toluene	ND		0.050	mg/Kg		05/29/24 14:32	06/03/24 11:36	1
Xylenes, Total	ND		0.10	mg/Kg		05/29/24 14:32	06/03/24 11:36	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			05/29/24 14:32	06/03/24 11:36	1

Lab Sample ID: LCS 885-5806/3-A

Matrix: Solid

Analysis Batch: 6078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	1.00	0.943		mg/Kg		94	70 - 130	
Ethylbenzene	1.00	0.900		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	2.00	1.83		mg/Kg		91	70 - 130	
o-Xylene	1.00	0.892		mg/Kg		89	70 - 130	
Toluene	1.00	0.887		mg/Kg		89	70 - 130	
Xylenes, Total	3.00	2.72		mg/Kg		91	70 - 130	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	96		48 - 145					

Lab Sample ID: MB 885-5866/1-A

Matrix: Solid

Analysis Batch: 6131

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5866

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 10:27	06/05/24 00:05	1
Ethylbenzene	ND		0.050	mg/Kg		05/30/24 10:27	06/05/24 00:05	1
Toluene	ND		0.050	mg/Kg		05/30/24 10:27	06/05/24 00:05	1
Xylenes, Total	ND		0.10	mg/Kg		05/30/24 10:27	06/05/24 00:05	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/30/24 10:27	06/05/24 00:05	1

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QC Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 885-5866/3-A

Matrix: Solid

Analysis Batch: 6131

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.892		mg/Kg		89	70 - 130
Ethylbenzene	1.00	0.847		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	2.00	1.71		mg/Kg		86	70 - 130
o-Xylene	1.00	0.847		mg/Kg		85	70 - 130
Toluene	1.00	0.850		mg/Kg		85	70 - 130
Xylenes, Total	3.00	2.56		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		48 - 145

Lab Sample ID: 885-5206-5 MS

Matrix: Solid

Analysis Batch: 6157

Client Sample ID: BH24-22 0.0'

Prep Type: Total/NA

Prep Batch: 5866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.992	0.817		mg/Kg		82	70 - 130
Ethylbenzene	ND		0.992	0.764		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	ND		1.98	1.56		mg/Kg		77	70 - 130
o-Xylene	ND		0.992	0.757		mg/Kg		76	70 - 130
Toluene	ND		0.992	0.769		mg/Kg		78	70 - 130
Xylenes, Total	ND		2.98	2.32		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		48 - 145

Lab Sample ID: 885-5206-5 MSD

Matrix: Solid

Analysis Batch: 6157

Client Sample ID: BH24-22 0.0'

Prep Type: Total/NA

Prep Batch: 5866

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
										RPD	Limit
Benzene	ND		0.992	0.807		mg/Kg		81	70 - 130	1	20
Ethylbenzene	ND		0.992	0.758		mg/Kg		76	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.98	1.54		mg/Kg		76	70 - 130	1	20
o-Xylene	ND		0.992	0.750		mg/Kg		76	70 - 130	1	20
Toluene	ND		0.992	0.763		mg/Kg		77	70 - 130	1	20
Xylenes, Total	ND		2.98	2.29		mg/Kg		76	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		48 - 145

Lab Sample ID: MB 885-5880/1-A

Matrix: Solid

Analysis Batch: 6131

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5880

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/30/24 12:45	06/04/24 11:12	1
Ethylbenzene	ND		0.050	mg/Kg		05/30/24 12:45	06/04/24 11:12	1
Toluene	ND		0.050	mg/Kg		05/30/24 12:45	06/04/24 11:12	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-5880/1-A

Matrix: Solid

Analysis Batch: 6131

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5880

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		05/30/24 12:45	06/04/24 11:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/30/24 12:45	06/04/24 11:12	1

Lab Sample ID: LCS 885-5880/3-A

Matrix: Solid

Analysis Batch: 6131

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.910		mg/Kg		91	70 - 130
Ethylbenzene	1.00	0.868		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	2.00	1.77		mg/Kg		88	70 - 130
o-Xylene	1.00	0.868		mg/Kg		87	70 - 130
Toluene	1.00	0.875		mg/Kg		87	70 - 130
Xylenes, Total	3.00	2.64		mg/Kg		88	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	94		48 - 145				

Lab Sample ID: 885-5206-25 MS

Matrix: Solid

Analysis Batch: 6131

Client Sample ID: BH24-31 0.0'

Prep Type: Total/NA

Prep Batch: 5880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.996	0.888		mg/Kg		89	70 - 130
Ethylbenzene	ND		0.996	0.860		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	ND		1.99	1.73		mg/Kg		85	70 - 130
o-Xylene	ND		0.996	0.854		mg/Kg		86	70 - 130
Toluene	ND		0.996	0.842		mg/Kg		83	70 - 130
Xylenes, Total	ND		2.99	2.58		mg/Kg		85	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	94		48 - 145						

Lab Sample ID: 885-5206-25 MSD

Matrix: Solid

Analysis Batch: 6131

Client Sample ID: BH24-31 0.0'

Prep Type: Total/NA

Prep Batch: 5880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.997	0.850		mg/Kg		85	70 - 130	4	20
Ethylbenzene	ND		0.997	0.831		mg/Kg		83	70 - 130	3	20
m-Xylene & p-Xylene	ND		1.99	1.70		mg/Kg		84	70 - 130	2	20
o-Xylene	ND		0.997	0.825		mg/Kg		83	70 - 130	3	20
Toluene	ND		0.997	0.826		mg/Kg		81	70 - 130	2	20
Xylenes, Total	ND		2.99	2.52		mg/Kg		84	70 - 130	2	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-5206-25 MSD

Matrix: Solid

Analysis Batch: 6131

Client Sample ID: BH24-31 0.0'

Prep Type: Total/NA

Prep Batch: 5880

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		48 - 145

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-5872/1-A

Matrix: Solid

Analysis Batch: 5949

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5872

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/30/24 12:06	05/31/24 16:39	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/30/24 12:06	05/31/24 16:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			05/30/24 12:06	05/31/24 16:39	1

Lab Sample ID: LCS 885-5872/2-A

Matrix: Solid

Analysis Batch: 5949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	42.7		mg/Kg		85	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	80		62 - 134				

Lab Sample ID: LCS 885-5872/3-A

Matrix: Solid

Analysis Batch: 5949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	45.9		mg/Kg		92	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	85		62 - 134				

Lab Sample ID: LCS 885-5872/4-A

Matrix: Solid

Analysis Batch: 5949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	46.1		mg/Kg		92	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	86		62 - 134				

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-5872/5-A

Matrix: Solid

Analysis Batch: 5949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5872

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier				Limits		
Diesel Range Organics			50.0	50.8		mg/Kg		102	60 - 135		
[C10-C28]											
Surrogate	LCS		Limits								
	%Recovery	Qualifier									
Di-n-octyl phthalate (Surr)	94		62 - 134								

Lab Sample ID: 885-5206-4 MS

Matrix: Solid

Analysis Batch: 5949

Client Sample ID: BH24-21 2.0'

Prep Type: Total/NA

Prep Batch: 5872

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Diesel Range Organics [C10-C28]	13		49.3	53.3		mg/Kg		82	44 - 136		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
Di-n-octyl phthalate (Surr)	96		62 - 134								

Lab Sample ID: 885-5206-4 MSD

Matrix: Solid

Analysis Batch: 5949

Client Sample ID: BH24-21 2.0'

Prep Type: Total/NA

Prep Batch: 5872

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics [C10-C28]	13		45.0	54.4		mg/Kg		93	44 - 136	2	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	94		62 - 134								

Lab Sample ID: MB 885-5887/1-A

Matrix: Solid

Analysis Batch: 5949

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5887

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/30/24 14:51	05/31/24 13:42	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/30/24 14:51	05/31/24 13:42	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
%Recovery	Qualifier							
Di-n-octyl phthalate (Surr)	113		62 - 134	05/30/24 14:51	05/31/24 13:42	1		

Lab Sample ID: LCS 885-5887/2-A

Matrix: Solid

Analysis Batch: 5949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	53.5		mg/Kg		107	60 - 135

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-5887/2-A

Matrix: Solid

Analysis Batch: 5949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5887

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Di-n-octyl phthalate (Surr)	106		62 - 134

Lab Sample ID: MB 885-5888/1-A

Matrix: Solid

Analysis Batch: 5950

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5888

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/30/24 14:54	05/31/24 14:13	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/30/24 14:54	05/31/24 14:13	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
Di-n-octyl phthalate (Surr)	133		62 - 134			05/30/24 14:54	05/31/24 14:13	1

Lab Sample ID: LCS 885-5888/2-A

Matrix: Solid

Analysis Batch: 5950

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5888

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
	Added	Result	Qualifier					
Diesel Range Organics [C10-C28]	50.0	43.5		mg/Kg		87		60 - 135
Surrogate	LCS	LCS	Limits					
	%Recovery	Qualifier						
Di-n-octyl phthalate (Surr)	102		62 - 134					

Lab Sample ID: 885-5206-24 MS

Matrix: Solid

Analysis Batch: 5950

Client Sample ID: BH24-30 2.0'

Prep Type: Total/NA

Prep Batch: 5888

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Diesel Range Organics [C10-C28]	ND		45.2	36.9		mg/Kg		82		44 - 136
Surrogate	MS	MS	Limits							
	%Recovery	Qualifier								
Di-n-octyl phthalate (Surr)	78		62 - 134							

Lab Sample ID: 885-5206-24 MSD

Matrix: Solid

Analysis Batch: 5950

Client Sample ID: BH24-30 2.0'

Prep Type: Total/NA

Prep Batch: 5888

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Diesel Range Organics [C10-C28]	ND		46.6	29.1		mg/Kg		62		24	32
Surrogate	MSD	MSD	Limits								
	%Recovery	Qualifier									
Di-n-octyl phthalate (Surr)	62		62 - 134								

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-6042/1-A

Matrix: Solid

Analysis Batch: 6100

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6042

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/03/24 15:57	06/04/24 11:44	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/03/24 15:57	06/04/24 11:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			06/03/24 15:57	06/04/24 11:44	1

Lab Sample ID: LCS 885-6042/2-A

Matrix: Solid

Analysis Batch: 6100

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	46.4		mg/Kg		93	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	91		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-5883/1-A

Matrix: Solid

Analysis Batch: 5918

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5883

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/30/24 14:06	05/30/24 16:38	1

Lab Sample ID: LCS 885-5883/2-A

Matrix: Solid

Analysis Batch: 5918

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5883

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.0		mg/Kg		93	90 - 110

Lab Sample ID: 885-5206-6 MS

Matrix: Solid

Analysis Batch: 5918

Client Sample ID: BH24-22 2.0'

Prep Type: Total/NA

Prep Batch: 5883

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	150		30.1	164	4	mg/Kg		60	50 - 150

Lab Sample ID: 885-5206-6 MSD

Matrix: Solid

Analysis Batch: 5918

Client Sample ID: BH24-22 2.0'

Prep Type: Total/NA

Prep Batch: 5883

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride	150		30.0	172	4	mg/Kg		87	50 - 150	5 20

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QC Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-5206-11 MS

Matrix: Solid

Analysis Batch: 5918

Client Sample ID: BH24-16 0.0'

Prep Type: Total/NA

Prep Batch: 5883

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	740		30.1	777	4	mg/Kg		135	50 - 150

Lab Sample ID: MB 885-5912/2-A

Matrix: Solid

Analysis Batch: 5977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5912

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/31/24 07:03	05/31/24 08:33	1

Lab Sample ID: LCS 885-5912/3-A

Matrix: Solid

Analysis Batch: 5977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.2		mg/Kg		95	90 - 110

Lab Sample ID: MRL 885-5912/1-A

Matrix: Solid

Analysis Batch: 5977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5912

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.50	1.61		mg/L		107	50 - 150

Lab Sample ID: MB 885-5922/1-A

Matrix: Solid

Analysis Batch: 5977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5922

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		05/31/24 08:25	05/31/24 12:38	1

Lab Sample ID: LCS 885-5922/2-A

Matrix: Solid

Analysis Batch: 5977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.2		mg/Kg		94	90 - 110

Lab Sample ID: 885-5206-24 MS

Matrix: Solid

Analysis Batch: 5977

Client Sample ID: BH24-30 2.0'

Prep Type: Total/NA

Prep Batch: 5922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	120		30.1	157	4	mg/Kg		108	50 - 150

Lab Sample ID: 885-5206-24 MSD

Matrix: Solid

Analysis Batch: 5977

Client Sample ID: BH24-30 2.0'

Prep Type: Total/NA

Prep Batch: 5922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	120		29.9	149	4	mg/Kg		82	50 - 150	5	20

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QC Sample Results

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-5206-25 MS											Client Sample ID: BH24-31 0.0'		
Matrix: Solid											Prep Type: Total/NA		
Analysis Batch: 5977											Prep Batch: 5922		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	170		30.1	200	4	mg/Kg		109	50 - 150				

Lab Sample ID: 885-5206-25 MSD											Client Sample ID: BH24-31 0.0'		
Matrix: Solid											Prep Type: Total/NA		
Analysis Batch: 5977											Prep Batch: 5922		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	170		30.0	195	4	mg/Kg		92	50 - 150	3	20		

Lab Sample ID: MB 885-5977/109											Client Sample ID: Method Blank		
Matrix: Solid											Prep Type: Total/NA		
Analysis Batch: 5977													
Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared		Analyzed	Dil Fac			
Chloride	ND		0.50		mg/Kg				06/01/24 01:36	1			

Lab Sample ID: MRL 885-5977/108											Client Sample ID: Lab Control Sample		
Matrix: Solid											Prep Type: Total/NA		
Analysis Batch: 5977													
Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride			0.500	0.532		mg/L		106	50 - 150				

QC Association Summary

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

GC VOA

Prep Batch: 5806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-1	BH24-20 0.0'	Total/NA	Solid	5030C	
885-5206-2	BH24-20 2.0'	Total/NA	Solid	5030C	
885-5206-3	BH24-21 0.0'	Total/NA	Solid	5030C	
MB 885-5806/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-5806/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-5806/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 5866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-4	BH24-21 2.0'	Total/NA	Solid	5030C	
885-5206-5	BH24-22 0.0'	Total/NA	Solid	5030C	
885-5206-6	BH24-22 2.0'	Total/NA	Solid	5030C	
885-5206-7	BH24-23 0.0'	Total/NA	Solid	5030C	
885-5206-8	BH24-23 2.0'	Total/NA	Solid	5030C	
885-5206-9	BH24-24 0.0'	Total/NA	Solid	5030C	
885-5206-10	BH24-24 2.0'	Total/NA	Solid	5030C	
885-5206-11	BH24-16 0.0'	Total/NA	Solid	5030C	
885-5206-12	BH24-22 3.0'	Total/NA	Solid	5030C	
885-5206-13	BH24-22 4.0'	Total/NA	Solid	5030C	
885-5206-14	BH24-27 0.0'	Total/NA	Solid	5030C	
885-5206-15	BH24-16 2.0'	Total/NA	Solid	5030C	
885-5206-16	BH24-27 2.0'	Total/NA	Solid	5030C	
885-5206-17	BH24-28 0.0'	Total/NA	Solid	5030C	
885-5206-18	BH24-17 0.0'	Total/NA	Solid	5030C	
885-5206-19	BH24-25 0.0'	Total/NA	Solid	5030C	
885-5206-20	BH24-26 0.0'	Total/NA	Solid	5030C	
885-5206-21	BH24-29 0.0'	Total/NA	Solid	5030C	
885-5206-22	BH24-29 2.0'	Total/NA	Solid	5030C	
885-5206-23	BH24-30 0.0'	Total/NA	Solid	5030C	
MB 885-5866/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-5866/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-5866/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-5206-4 MS	BH24-21 2.0'	Total/NA	Solid	5030C	
885-5206-4 MSD	BH24-21 2.0'	Total/NA	Solid	5030C	
885-5206-5 MS	BH24-22 0.0'	Total/NA	Solid	5030C	
885-5206-5 MSD	BH24-22 0.0'	Total/NA	Solid	5030C	

Prep Batch: 5880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-24	BH24-30 2.0'	Total/NA	Solid	5030C	
885-5206-25	BH24-31 0.0'	Total/NA	Solid	5030C	
885-5206-26	BH24-31 2.0'	Total/NA	Solid	5030C	
885-5206-27	BH24-11 0FT	Total/NA	Solid	5030C	
885-5206-28	BH24-11 2FT	Total/NA	Solid	5030C	
885-5206-29	BH24-12 0FT	Total/NA	Solid	5030C	
885-5206-30	BH24-12 2FT	Total/NA	Solid	5030C	
885-5206-31	BH24-13 0FT	Total/NA	Solid	5030C	
885-5206-32	BH24-13 2FT	Total/NA	Solid	5030C	
885-5206-33	BH24-14 0FT	Total/NA	Solid	5030C	
885-5206-34	BH24-14 2FT	Total/NA	Solid	5030C	
885-5206-35	BH24-15 0FT	Total/NA	Solid	5030C	

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QC Association Summary

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

GC VOA (Continued)

Prep Batch: 5880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-36	BH24-15 2FT	Total/NA	Solid	5030C	
885-5206-37	BH24-15 2.5FT	Total/NA	Solid	5030C	
MB 885-5880/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-5880/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-5880/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-5206-24 MS	BH24-30 2.0'	Total/NA	Solid	5030C	
885-5206-24 MSD	BH24-30 2.0'	Total/NA	Solid	5030C	
885-5206-25 MS	BH24-31 0.0'	Total/NA	Solid	5030C	
885-5206-25 MSD	BH24-31 0.0'	Total/NA	Solid	5030C	

Analysis Batch: 6025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-1	BH24-20 0.0'	Total/NA	Solid	8015M/D	5806
885-5206-2	BH24-20 2.0'	Total/NA	Solid	8015M/D	5806
885-5206-3	BH24-21 0.0'	Total/NA	Solid	8015M/D	5806
MB 885-5806/1-A	Method Blank	Total/NA	Solid	8015M/D	5806
LCS 885-5806/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5806

Analysis Batch: 6078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-1	BH24-20 0.0'	Total/NA	Solid	8021B	5806
885-5206-2	BH24-20 2.0'	Total/NA	Solid	8021B	5806
885-5206-3	BH24-21 0.0'	Total/NA	Solid	8021B	5806
MB 885-5806/1-A	Method Blank	Total/NA	Solid	8021B	5806
LCS 885-5806/3-A	Lab Control Sample	Total/NA	Solid	8021B	5806

Analysis Batch: 6130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-4	BH24-21 2.0'	Total/NA	Solid	8015M/D	5866
885-5206-5	BH24-22 0.0'	Total/NA	Solid	8015M/D	5866
885-5206-6	BH24-22 2.0'	Total/NA	Solid	8015M/D	5866
885-5206-8	BH24-23 2.0'	Total/NA	Solid	8015M/D	5866
885-5206-10	BH24-24 2.0'	Total/NA	Solid	8015M/D	5866
885-5206-11	BH24-16 0.0'	Total/NA	Solid	8015M/D	5866
885-5206-24	BH24-30 2.0'	Total/NA	Solid	8015M/D	5880
885-5206-25	BH24-31 0.0'	Total/NA	Solid	8015M/D	5880
885-5206-26	BH24-31 2.0'	Total/NA	Solid	8015M/D	5880
885-5206-27	BH24-11 0FT	Total/NA	Solid	8015M/D	5880
885-5206-28	BH24-11 2FT	Total/NA	Solid	8015M/D	5880
885-5206-29	BH24-12 0FT	Total/NA	Solid	8015M/D	5880
885-5206-30	BH24-12 2FT	Total/NA	Solid	8015M/D	5880
885-5206-31	BH24-13 0FT	Total/NA	Solid	8015M/D	5880
885-5206-32	BH24-13 2FT	Total/NA	Solid	8015M/D	5880
885-5206-33	BH24-14 0FT	Total/NA	Solid	8015M/D	5880
885-5206-34	BH24-14 2FT	Total/NA	Solid	8015M/D	5880
885-5206-35	BH24-15 0FT	Total/NA	Solid	8015M/D	5880
885-5206-36	BH24-15 2FT	Total/NA	Solid	8015M/D	5880
885-5206-37	BH24-15 2.5FT	Total/NA	Solid	8015M/D	5880
MB 885-5866/1-A	Method Blank	Total/NA	Solid	8015M/D	5866
MB 885-5880/1-A	Method Blank	Total/NA	Solid	8015M/D	5880
LCS 885-5866/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5866

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

GC VOA (Continued)

Analysis Batch: 6130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-5880/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5880
885-5206-24 MS	BH24-30 2.0'	Total/NA	Solid	8015M/D	5880
885-5206-24 MSD	BH24-30 2.0'	Total/NA	Solid	8015M/D	5880

Analysis Batch: 6131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-4	BH24-21 2.0'	Total/NA	Solid	8021B	5866
885-5206-5	BH24-22 0.0'	Total/NA	Solid	8021B	5866
885-5206-6	BH24-22 2.0'	Total/NA	Solid	8021B	5866
885-5206-8	BH24-23 2.0'	Total/NA	Solid	8021B	5866
885-5206-10	BH24-24 2.0'	Total/NA	Solid	8021B	5866
885-5206-11	BH24-16 0.0'	Total/NA	Solid	8021B	5866
885-5206-24	BH24-30 2.0'	Total/NA	Solid	8021B	5880
885-5206-25	BH24-31 0.0'	Total/NA	Solid	8021B	5880
885-5206-26	BH24-31 2.0'	Total/NA	Solid	8021B	5880
885-5206-27	BH24-11 0FT	Total/NA	Solid	8021B	5880
885-5206-28	BH24-11 2FT	Total/NA	Solid	8021B	5880
885-5206-29	BH24-12 0FT	Total/NA	Solid	8021B	5880
885-5206-30	BH24-12 2FT	Total/NA	Solid	8021B	5880
885-5206-31	BH24-13 0FT	Total/NA	Solid	8021B	5880
885-5206-32	BH24-13 2FT	Total/NA	Solid	8021B	5880
885-5206-33	BH24-14 0FT	Total/NA	Solid	8021B	5880
885-5206-34	BH24-14 2FT	Total/NA	Solid	8021B	5880
885-5206-35	BH24-15 0FT	Total/NA	Solid	8021B	5880
885-5206-36	BH24-15 2FT	Total/NA	Solid	8021B	5880
885-5206-37	BH24-15 2.5FT	Total/NA	Solid	8021B	5880
MB 885-5866/1-A	Method Blank	Total/NA	Solid	8021B	5866
MB 885-5880/1-A	Method Blank	Total/NA	Solid	8021B	5880
LCS 885-5866/3-A	Lab Control Sample	Total/NA	Solid	8021B	5866
LCS 885-5880/3-A	Lab Control Sample	Total/NA	Solid	8021B	5880
885-5206-25 MS	BH24-31 0.0'	Total/NA	Solid	8021B	5880
885-5206-25 MSD	BH24-31 0.0'	Total/NA	Solid	8021B	5880

Analysis Batch: 6156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-7	BH24-23 0.0'	Total/NA	Solid	8015M/D	5866
885-5206-9	BH24-24 0.0'	Total/NA	Solid	8015M/D	5866
885-5206-12	BH24-22 3.0'	Total/NA	Solid	8015M/D	5866
885-5206-13	BH24-22 4.0'	Total/NA	Solid	8015M/D	5866
885-5206-14	BH24-27 0.0'	Total/NA	Solid	8015M/D	5866
885-5206-15	BH24-16 2.0'	Total/NA	Solid	8015M/D	5866
885-5206-16	BH24-27 2.0'	Total/NA	Solid	8015M/D	5866
885-5206-17	BH24-28 0.0'	Total/NA	Solid	8015M/D	5866
885-5206-18	BH24-17 0.0'	Total/NA	Solid	8015M/D	5866
885-5206-19	BH24-25 0.0'	Total/NA	Solid	8015M/D	5866
885-5206-20	BH24-26 0.0'	Total/NA	Solid	8015M/D	5866
885-5206-21	BH24-29 0.0'	Total/NA	Solid	8015M/D	5866
885-5206-22	BH24-29 2.0'	Total/NA	Solid	8015M/D	5866
885-5206-23	BH24-30 0.0'	Total/NA	Solid	8015M/D	5866
885-5206-4 MS	BH24-21 2.0'	Total/NA	Solid	8015M/D	5866
885-5206-4 MSD	BH24-21 2.0'	Total/NA	Solid	8015M/D	5866

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

GC VOA

Analysis Batch: 6157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-7	BH24-23 0.0'	Total/NA	Solid	8021B	5866
885-5206-9	BH24-24 0.0'	Total/NA	Solid	8021B	5866
885-5206-12	BH24-22 3.0'	Total/NA	Solid	8021B	5866
885-5206-13	BH24-22 4.0'	Total/NA	Solid	8021B	5866
885-5206-14	BH24-27 0.0'	Total/NA	Solid	8021B	5866
885-5206-15	BH24-16 2.0'	Total/NA	Solid	8021B	5866
885-5206-16	BH24-27 2.0'	Total/NA	Solid	8021B	5866
885-5206-17	BH24-28 0.0'	Total/NA	Solid	8021B	5866
885-5206-18	BH24-17 0.0'	Total/NA	Solid	8021B	5866
885-5206-19	BH24-25 0.0'	Total/NA	Solid	8021B	5866
885-5206-20	BH24-26 0.0'	Total/NA	Solid	8021B	5866
885-5206-21	BH24-29 0.0'	Total/NA	Solid	8021B	5866
885-5206-22	BH24-29 2.0'	Total/NA	Solid	8021B	5866
885-5206-23	BH24-30 0.0'	Total/NA	Solid	8021B	5866
885-5206-5 MS	BH24-22 0.0'	Total/NA	Solid	8021B	5866
885-5206-5 MSD	BH24-22 0.0'	Total/NA	Solid	8021B	5866

GC Semi VOA

Prep Batch: 5872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-4	BH24-21 2.0'	Total/NA	Solid	SHAKE	
885-5206-5	BH24-22 0.0'	Total/NA	Solid	SHAKE	
885-5206-6	BH24-22 2.0'	Total/NA	Solid	SHAKE	
885-5206-7	BH24-23 0.0'	Total/NA	Solid	SHAKE	
885-5206-8	BH24-23 2.0'	Total/NA	Solid	SHAKE	
885-5206-9	BH24-24 0.0'	Total/NA	Solid	SHAKE	
885-5206-10	BH24-24 2.0'	Total/NA	Solid	SHAKE	
885-5206-11	BH24-16 0.0'	Total/NA	Solid	SHAKE	
885-5206-12	BH24-22 3.0'	Total/NA	Solid	SHAKE	
885-5206-13	BH24-22 4.0'	Total/NA	Solid	SHAKE	
885-5206-14	BH24-27 0.0'	Total/NA	Solid	SHAKE	
885-5206-15	BH24-16 2.0'	Total/NA	Solid	SHAKE	
885-5206-16	BH24-27 2.0'	Total/NA	Solid	SHAKE	
885-5206-17	BH24-28 0.0'	Total/NA	Solid	SHAKE	
885-5206-18	BH24-17 0.0'	Total/NA	Solid	SHAKE	
885-5206-19	BH24-25 0.0'	Total/NA	Solid	SHAKE	
885-5206-20	BH24-26 0.0'	Total/NA	Solid	SHAKE	
885-5206-21	BH24-29 0.0'	Total/NA	Solid	SHAKE	
885-5206-22	BH24-29 2.0'	Total/NA	Solid	SHAKE	
885-5206-23	BH24-30 0.0'	Total/NA	Solid	SHAKE	
MB 885-5872/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-5872/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
LCS 885-5872/3-A	Lab Control Sample	Total/NA	Solid	SHAKE	
LCS 885-5872/4-A	Lab Control Sample	Total/NA	Solid	SHAKE	
LCS 885-5872/5-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-5206-4 MS	BH24-21 2.0'	Total/NA	Solid	SHAKE	
885-5206-4 MSD	BH24-21 2.0'	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

GC Semi VOA

Prep Batch: 5887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-1	BH24-20 0.0'	Total/NA	Solid	SHAKE	
885-5206-2	BH24-20 2.0'	Total/NA	Solid	SHAKE	
885-5206-3	BH24-21 0.0'	Total/NA	Solid	SHAKE	
MB 885-5887/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-5887/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 5888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-24	BH24-30 2.0'	Total/NA	Solid	SHAKE	
885-5206-26	BH24-31 2.0'	Total/NA	Solid	SHAKE	
885-5206-27	BH24-11 0FT	Total/NA	Solid	SHAKE	
885-5206-28	BH24-11 2FT	Total/NA	Solid	SHAKE	
885-5206-30	BH24-12 2FT	Total/NA	Solid	SHAKE	
885-5206-33	BH24-14 0FT	Total/NA	Solid	SHAKE	
885-5206-36	BH24-15 2FT	Total/NA	Solid	SHAKE	
885-5206-37	BH24-15 2.5FT	Total/NA	Solid	SHAKE	
MB 885-5888/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-5888/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-5206-24 MS	BH24-30 2.0'	Total/NA	Solid	SHAKE	
885-5206-24 MSD	BH24-30 2.0'	Total/NA	Solid	SHAKE	

Analysis Batch: 5949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-1	BH24-20 0.0'	Total/NA	Solid	8015M/D	5887
885-5206-2	BH24-20 2.0'	Total/NA	Solid	8015M/D	5887
885-5206-3	BH24-21 0.0'	Total/NA	Solid	8015M/D	5887
885-5206-4	BH24-21 2.0'	Total/NA	Solid	8015M/D	5872
885-5206-5	BH24-22 0.0'	Total/NA	Solid	8015M/D	5872
885-5206-6	BH24-22 2.0'	Total/NA	Solid	8015M/D	5872
885-5206-11	BH24-16 0.0'	Total/NA	Solid	8015M/D	5872
885-5206-12	BH24-22 3.0'	Total/NA	Solid	8015M/D	5872
885-5206-13	BH24-22 4.0'	Total/NA	Solid	8015M/D	5872
885-5206-14	BH24-27 0.0'	Total/NA	Solid	8015M/D	5872
885-5206-15	BH24-16 2.0'	Total/NA	Solid	8015M/D	5872
885-5206-16	BH24-27 2.0'	Total/NA	Solid	8015M/D	5872
885-5206-18	BH24-17 0.0'	Total/NA	Solid	8015M/D	5872
885-5206-19	BH24-25 0.0'	Total/NA	Solid	8015M/D	5872
885-5206-20	BH24-26 0.0'	Total/NA	Solid	8015M/D	5872
885-5206-21	BH24-29 0.0'	Total/NA	Solid	8015M/D	5872
885-5206-22	BH24-29 2.0'	Total/NA	Solid	8015M/D	5872
885-5206-23	BH24-30 0.0'	Total/NA	Solid	8015M/D	5872
MB 885-5872/1-A	Method Blank	Total/NA	Solid	8015M/D	5872
MB 885-5887/1-A	Method Blank	Total/NA	Solid	8015M/D	5887
LCS 885-5872/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5872
LCS 885-5872/3-A	Lab Control Sample	Total/NA	Solid	8015M/D	5872
LCS 885-5872/4-A	Lab Control Sample	Total/NA	Solid	8015M/D	5872
LCS 885-5872/5-A	Lab Control Sample	Total/NA	Solid	8015M/D	5872
LCS 885-5887/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5887
885-5206-4 MS	BH24-21 2.0'	Total/NA	Solid	8015M/D	5872
885-5206-4 MSD	BH24-21 2.0'	Total/NA	Solid	8015M/D	5872

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

GC Semi VOA

Analysis Batch: 5950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-24	BH24-30 2.0'	Total/NA	Solid	8015M/D	5888
885-5206-26	BH24-31 2.0'	Total/NA	Solid	8015M/D	5888
885-5206-27	BH24-11 0FT	Total/NA	Solid	8015M/D	5888
885-5206-28	BH24-11 2FT	Total/NA	Solid	8015M/D	5888
885-5206-30	BH24-12 2FT	Total/NA	Solid	8015M/D	5888
885-5206-33	BH24-14 0FT	Total/NA	Solid	8015M/D	5888
885-5206-36	BH24-15 2FT	Total/NA	Solid	8015M/D	5888
885-5206-37	BH24-15 2.5FT	Total/NA	Solid	8015M/D	5888
MB 885-5888/1-A	Method Blank	Total/NA	Solid	8015M/D	5888
LCS 885-5888/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5888
885-5206-24 MS	BH24-30 2.0'	Total/NA	Solid	8015M/D	5888
885-5206-24 MSD	BH24-30 2.0'	Total/NA	Solid	8015M/D	5888

Prep Batch: 6042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-25	BH24-31 0.0'	Total/NA	Solid	SHAKE	
885-5206-29	BH24-12 0FT	Total/NA	Solid	SHAKE	
885-5206-31	BH24-13 0FT	Total/NA	Solid	SHAKE	
885-5206-32	BH24-13 2FT	Total/NA	Solid	SHAKE	
885-5206-34	BH24-14 2FT	Total/NA	Solid	SHAKE	
885-5206-35	BH24-15 0FT	Total/NA	Solid	SHAKE	
MB 885-6042/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-6042/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 6080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-7	BH24-23 0.0'	Total/NA	Solid	8015M/D	5872
885-5206-8	BH24-23 2.0'	Total/NA	Solid	8015M/D	5872
885-5206-9	BH24-24 0.0'	Total/NA	Solid	8015M/D	5872
885-5206-10	BH24-24 2.0'	Total/NA	Solid	8015M/D	5872
885-5206-17	BH24-28 0.0'	Total/NA	Solid	8015M/D	5872

Analysis Batch: 6100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-25	BH24-31 0.0'	Total/NA	Solid	8015M/D	6042
885-5206-29	BH24-12 0FT	Total/NA	Solid	8015M/D	6042
885-5206-31	BH24-13 0FT	Total/NA	Solid	8015M/D	6042
885-5206-32	BH24-13 2FT	Total/NA	Solid	8015M/D	6042
885-5206-34	BH24-14 2FT	Total/NA	Solid	8015M/D	6042
885-5206-35	BH24-15 0FT	Total/NA	Solid	8015M/D	6042
MB 885-6042/1-A	Method Blank	Total/NA	Solid	8015M/D	6042
LCS 885-6042/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	6042

HPLC/IC

Prep Batch: 5883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-4	BH24-21 2.0'	Total/NA	Solid	300_Prep	
885-5206-5	BH24-22 0.0'	Total/NA	Solid	300_Prep	
885-5206-6	BH24-22 2.0'	Total/NA	Solid	300_Prep	
885-5206-7	BH24-23 0.0'	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

HPLC/IC (Continued)

Prep Batch: 5883 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-8	BH24-23 2.0'	Total/NA	Solid	300_Prep	
885-5206-9	BH24-24 0.0'	Total/NA	Solid	300_Prep	
885-5206-10	BH24-24 2.0'	Total/NA	Solid	300_Prep	
885-5206-11	BH24-16 0.0'	Total/NA	Solid	300_Prep	
885-5206-12	BH24-22 3.0'	Total/NA	Solid	300_Prep	
885-5206-13	BH24-22 4.0'	Total/NA	Solid	300_Prep	
885-5206-14	BH24-27 0.0'	Total/NA	Solid	300_Prep	
885-5206-15	BH24-16 2.0'	Total/NA	Solid	300_Prep	
885-5206-16	BH24-27 2.0'	Total/NA	Solid	300_Prep	
885-5206-17	BH24-28 0.0'	Total/NA	Solid	300_Prep	
885-5206-18	BH24-17 0.0'	Total/NA	Solid	300_Prep	
885-5206-19	BH24-25 0.0'	Total/NA	Solid	300_Prep	
885-5206-20	BH24-26 0.0'	Total/NA	Solid	300_Prep	
885-5206-21	BH24-29 0.0'	Total/NA	Solid	300_Prep	
885-5206-22	BH24-29 2.0'	Total/NA	Solid	300_Prep	
MB 885-5883/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-5883/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-5206-6 MS	BH24-22 2.0'	Total/NA	Solid	300_Prep	
885-5206-6 MSD	BH24-22 2.0'	Total/NA	Solid	300_Prep	
885-5206-11 MS	BH24-16 0.0'	Total/NA	Solid	300_Prep	

Prep Batch: 5912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-1	BH24-20 0.0'	Total/NA	Solid	300_Prep	
885-5206-2	BH24-20 2.0'	Total/NA	Solid	300_Prep	
885-5206-3	BH24-21 0.0'	Total/NA	Solid	300_Prep	
885-5206-23	BH24-30 0.0'	Total/NA	Solid	300_Prep	
MB 885-5912/2-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-5912/3-A	Lab Control Sample	Total/NA	Solid	300_Prep	
MRL 885-5912/1-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 5918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-4	BH24-21 2.0'	Total/NA	Solid	300.0	5883
885-5206-5	BH24-22 0.0'	Total/NA	Solid	300.0	5883
885-5206-6	BH24-22 2.0'	Total/NA	Solid	300.0	5883
885-5206-7	BH24-23 0.0'	Total/NA	Solid	300.0	5883
885-5206-8	BH24-23 2.0'	Total/NA	Solid	300.0	5883
885-5206-9	BH24-24 0.0'	Total/NA	Solid	300.0	5883
885-5206-10	BH24-24 2.0'	Total/NA	Solid	300.0	5883
885-5206-11	BH24-16 0.0'	Total/NA	Solid	300.0	5883
885-5206-12	BH24-22 3.0'	Total/NA	Solid	300.0	5883
885-5206-13	BH24-22 4.0'	Total/NA	Solid	300.0	5883
885-5206-14	BH24-27 0.0'	Total/NA	Solid	300.0	5883
885-5206-15	BH24-16 2.0'	Total/NA	Solid	300.0	5883
885-5206-16	BH24-27 2.0'	Total/NA	Solid	300.0	5883
885-5206-17	BH24-28 0.0'	Total/NA	Solid	300.0	5883
885-5206-18	BH24-17 0.0'	Total/NA	Solid	300.0	5883
885-5206-20	BH24-26 0.0'	Total/NA	Solid	300.0	5883
885-5206-21	BH24-29 0.0'	Total/NA	Solid	300.0	5883
885-5206-22	BH24-29 2.0'	Total/NA	Solid	300.0	5883

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

HPLC/IC (Continued)

Analysis Batch: 5918 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-5883/1-A	Method Blank	Total/NA	Solid	300.0	5883
LCS 885-5883/2-A	Lab Control Sample	Total/NA	Solid	300.0	5883
885-5206-6 MS	BH24-22 2.0'	Total/NA	Solid	300.0	5883
885-5206-6 MSD	BH24-22 2.0'	Total/NA	Solid	300.0	5883
885-5206-11 MS	BH24-16 0.0'	Total/NA	Solid	300.0	5883

Prep Batch: 5922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-24	BH24-30 2.0'	Total/NA	Solid	300_Prep	
885-5206-25	BH24-31 0.0'	Total/NA	Solid	300_Prep	
885-5206-26	BH24-31 2.0'	Total/NA	Solid	300_Prep	
885-5206-27	BH24-11 0FT	Total/NA	Solid	300_Prep	
885-5206-28	BH24-11 2FT	Total/NA	Solid	300_Prep	
885-5206-29	BH24-12 0FT	Total/NA	Solid	300_Prep	
885-5206-30	BH24-12 2FT	Total/NA	Solid	300_Prep	
885-5206-31	BH24-13 0FT	Total/NA	Solid	300_Prep	
885-5206-32	BH24-13 2FT	Total/NA	Solid	300_Prep	
885-5206-33	BH24-14 0FT	Total/NA	Solid	300_Prep	
885-5206-34	BH24-14 2FT	Total/NA	Solid	300_Prep	
885-5206-35	BH24-15 0FT	Total/NA	Solid	300_Prep	
885-5206-36	BH24-15 2FT	Total/NA	Solid	300_Prep	
885-5206-37	BH24-15 2.5FT	Total/NA	Solid	300_Prep	
MB 885-5922/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-5922/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-5206-24 MS	BH24-30 2.0'	Total/NA	Solid	300_Prep	
885-5206-24 MSD	BH24-30 2.0'	Total/NA	Solid	300_Prep	
885-5206-25 MS	BH24-31 0.0'	Total/NA	Solid	300_Prep	
885-5206-25 MSD	BH24-31 0.0'	Total/NA	Solid	300_Prep	

Analysis Batch: 5977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-1	BH24-20 0.0'	Total/NA	Solid	300.0	5912
885-5206-2	BH24-20 2.0'	Total/NA	Solid	300.0	5912
885-5206-3	BH24-21 0.0'	Total/NA	Solid	300.0	5912
885-5206-19	BH24-25 0.0'	Total/NA	Solid	300.0	5883
885-5206-23	BH24-30 0.0'	Total/NA	Solid	300.0	5912
885-5206-24	BH24-30 2.0'	Total/NA	Solid	300.0	5922
885-5206-25	BH24-31 0.0'	Total/NA	Solid	300.0	5922
885-5206-26	BH24-31 2.0'	Total/NA	Solid	300.0	5922
885-5206-27	BH24-11 0FT	Total/NA	Solid	300.0	5922
885-5206-28	BH24-11 2FT	Total/NA	Solid	300.0	5922
885-5206-29	BH24-12 0FT	Total/NA	Solid	300.0	5922
885-5206-30	BH24-12 2FT	Total/NA	Solid	300.0	5922
885-5206-31	BH24-13 0FT	Total/NA	Solid	300.0	5922
885-5206-32	BH24-13 2FT	Total/NA	Solid	300.0	5922
885-5206-33	BH24-14 0FT	Total/NA	Solid	300.0	5922
885-5206-34	BH24-14 2FT	Total/NA	Solid	300.0	5922
885-5206-37	BH24-15 2.5FT	Total/NA	Solid	300.0	5922
MB 885-5912/2-A	Method Blank	Total/NA	Solid	300.0	5912
MB 885-5922/1-A	Method Blank	Total/NA	Solid	300.0	5922
MB 885-5977/109	Method Blank	Total/NA	Solid	300.0	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

HPLC/IC (Continued)

Analysis Batch: 5977 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-5912/3-A	Lab Control Sample	Total/NA	Solid	300.0	5912
LCS 885-5922/2-A	Lab Control Sample	Total/NA	Solid	300.0	5922
MRL 885-5912/1-A	Lab Control Sample	Total/NA	Solid	300.0	5912
MRL 885-5977/108	Lab Control Sample	Total/NA	Solid	300.0	
885-5206-24 MS	BH24-30 2.0'	Total/NA	Solid	300.0	5922
885-5206-24 MSD	BH24-30 2.0'	Total/NA	Solid	300.0	5922
885-5206-25 MS	BH24-31 0.0'	Total/NA	Solid	300.0	5922
885-5206-25 MSD	BH24-31 0.0'	Total/NA	Solid	300.0	5922

Analysis Batch: 5986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5206-35	BH24-15 0FT	Total/NA	Solid	300.0	5922
885-5206-36	BH24-15 2FT	Total/NA	Solid	300.0	5922

Lab Chronicle

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-20 0.0'
Date Collected: 05/24/24 09:40
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5806	AT	EET ALB	05/29/24 14:32
Total/NA	Analysis	8015M/D		1	6025	JP	EET ALB	06/03/24 19:24
Total/NA	Prep	5030C			5806	AT	EET ALB	05/29/24 14:32
Total/NA	Analysis	8021B		1	6078	JP	EET ALB	06/03/24 19:24
Total/NA	Prep	SHAKE			5887	SB	EET ALB	05/30/24 14:51
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 15:22
Total/NA	Prep	300_Prep			5912	JT	EET ALB	05/31/24 07:03
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 11:37

Client Sample ID: BH24-20 2.0'
Date Collected: 05/24/24 09:45
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5806	AT	EET ALB	05/29/24 14:32
Total/NA	Analysis	8015M/D		1	6025	JP	EET ALB	06/03/24 19:48
Total/NA	Prep	5030C			5806	AT	EET ALB	05/29/24 14:32
Total/NA	Analysis	8021B		1	6078	JP	EET ALB	06/03/24 19:48
Total/NA	Prep	SHAKE			5887	SB	EET ALB	05/30/24 14:51
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 15:33
Total/NA	Prep	300_Prep			5912	JT	EET ALB	05/31/24 07:03
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 11:49

Client Sample ID: BH24-21 0.0'
Date Collected: 05/24/24 09:55
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5806	AT	EET ALB	05/29/24 14:32
Total/NA	Analysis	8015M/D		1	6025	JP	EET ALB	06/03/24 20:11
Total/NA	Prep	5030C			5806	AT	EET ALB	05/29/24 14:32
Total/NA	Analysis	8021B		1	6078	JP	EET ALB	06/03/24 20:11
Total/NA	Prep	SHAKE			5887	SB	EET ALB	05/30/24 14:51
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 15:44
Total/NA	Prep	300_Prep			5912	JT	EET ALB	05/31/24 07:03
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 12:01

Client Sample ID: BH24-21 2.0'
Date Collected: 05/24/24 10:00
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/05/24 00:28

Eurofins Albuquerque

Lab Chronicle

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-21 2.0'

Lab Sample ID: 885-5206-4

Date Collected: 05/24/24 10:00

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/05/24 00:28
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 17:34
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/30/24 22:11

Client Sample ID: BH24-22 0.0'

Lab Sample ID: 885-5206-5

Date Collected: 05/24/24 10:05

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/05/24 00:52
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/05/24 00:52
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 18:08
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/30/24 22:24

Client Sample ID: BH24-22 2.0'

Lab Sample ID: 885-5206-6

Date Collected: 05/24/24 10:15

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/05/24 01:15
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/05/24 01:15
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 18:19
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/30/24 22:36

Client Sample ID: BH24-23 0.0'

Lab Sample ID: 885-5206-7

Date Collected: 05/24/24 10:20

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6156	JP	EET ALB	06/05/24 23:38
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6157	JP	EET ALB	06/05/24 23:38

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Lab Chronicle

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-23 0.0'
Date Collected: 05/24/24 10:20
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		50	6080	JU	EET ALB	06/03/24 14:39
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/30/24 23:38

Client Sample ID: BH24-23 2.0'
Date Collected: 05/24/24 10:30
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/05/24 02:02
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/05/24 02:02
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		5	6080	JU	EET ALB	06/03/24 14:50
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/30/24 23:50

Client Sample ID: BH24-24 0.0'
Date Collected: 05/24/24 10:35
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		2	6156	JP	EET ALB	06/05/24 22:51
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		2	6157	JP	EET ALB	06/05/24 22:51
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		20	6080	JU	EET ALB	06/03/24 15:01
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 00:02

Client Sample ID: BH24-24 2.0'
Date Collected: 05/24/24 10:45
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		2	6130	JP	EET ALB	06/05/24 02:49
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		2	6131	JP	EET ALB	06/05/24 02:49
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		20	6080	JU	EET ALB	06/03/24 15:12

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Lab Chronicle

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-24 2.0'
Date Collected: 05/24/24 10:45
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 00:15

Client Sample ID: BH24-16 0.0'
Date Collected: 05/24/24 14:35
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/05/24 03:13
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/05/24 03:13
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 19:15
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 00:27

Client Sample ID: BH24-22 3.0'
Date Collected: 05/25/24 10:00
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6156	JP	EET ALB	06/06/24 03:10
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6157	JP	EET ALB	06/06/24 03:10
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 19:26
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 01:04

Client Sample ID: BH24-22 4.0'
Date Collected: 05/25/24 10:25
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6156	JP	EET ALB	06/06/24 03:34
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6157	JP	EET ALB	06/06/24 03:34
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 19:38
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 01:16

Eurofins Albuquerque

Lab Chronicle

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-27 0.0'

Lab Sample ID: 885-5206-14

Date Collected: 05/25/24 10:45

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6156	JP	EET ALB	06/06/24 03:57
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6157	JP	EET ALB	06/06/24 03:57
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 19:49
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 01:29

Client Sample ID: BH24-16 2.0'

Lab Sample ID: 885-5206-15

Date Collected: 05/25/24 13:20

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6156	JP	EET ALB	06/06/24 04:20
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6157	JP	EET ALB	06/06/24 04:20
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 20:00
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 02:06

Client Sample ID: BH24-27 2.0'

Lab Sample ID: 885-5206-16

Date Collected: 05/25/24 13:40

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6156	JP	EET ALB	06/06/24 04:44
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6157	JP	EET ALB	06/06/24 04:44
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 20:11
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 02:18

Client Sample ID: BH24-28 0.0'

Lab Sample ID: 885-5206-17

Date Collected: 05/25/24 10:55

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		2	6156	JP	EET ALB	06/06/24 05:07

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Lab Chronicle

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-28 0.0'

Lab Sample ID: 885-5206-17

Date Collected: 05/25/24 10:55

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		2	6157	JP	EET ALB	06/06/24 05:07
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		10	6080	JU	EET ALB	06/03/24 15:22
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 02:30

Client Sample ID: BH24-17 0.0'

Lab Sample ID: 885-5206-18

Date Collected: 05/24/24 14:40

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6156	JP	EET ALB	06/06/24 05:31
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6157	JP	EET ALB	06/06/24 05:31
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 20:33
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 02:43

Client Sample ID: BH24-25 0.0'

Lab Sample ID: 885-5206-19

Date Collected: 05/24/24 14:30

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6156	JP	EET ALB	06/06/24 05:54
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6157	JP	EET ALB	06/06/24 05:54
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 20:44
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		100	5977	JT	EET ALB	05/31/24 12:26

Client Sample ID: BH24-26 0.0'

Lab Sample ID: 885-5206-20

Date Collected: 05/24/24 14:25

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6156	JP	EET ALB	06/06/24 06:17
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6157	JP	EET ALB	06/06/24 06:17

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Lab Chronicle

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-26 0.0'

Lab Sample ID: 885-5206-20

Date Collected: 05/24/24 14:25

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 20:56
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 03:07

Client Sample ID: BH24-29 0.0'

Lab Sample ID: 885-5206-21

Date Collected: 05/26/24 09:00

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6156	JP	EET ALB	06/06/24 07:04
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6157	JP	EET ALB	06/06/24 07:04
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 21:07
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 03:20

Client Sample ID: BH24-29 2.0'

Lab Sample ID: 885-5206-22

Date Collected: 05/26/24 11:30

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6156	JP	EET ALB	06/06/24 07:28
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6157	JP	EET ALB	06/06/24 07:28
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 21:18
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/31/24 03:32

Client Sample ID: BH24-30 0.0'

Lab Sample ID: 885-5206-23

Date Collected: 05/26/24 09:15

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8015M/D		1	6156	JP	EET ALB	06/06/24 07:51
Total/NA	Prep	5030C			5866	AT	EET ALB	05/30/24 10:27
Total/NA	Analysis	8021B		1	6157	JP	EET ALB	06/06/24 07:51
Total/NA	Prep	SHAKE			5872	JM	EET ALB	05/30/24 12:06
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 21:29

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Lab Chronicle

Client: Vertex
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Job ID: 885-5206-1

Client Sample ID: BH24-30 0.0'
Date Collected: 05/26/24 09:15
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			5912	JT	EET ALB	05/31/24 07:03
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 12:14

Client Sample ID: BH24-30 2.0'
Date Collected: 05/26/24 11:55
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 12:45
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 12:45
Total/NA	Prep	SHAKE			5888	SB	EET ALB	05/30/24 14:54
Total/NA	Analysis	8015M/D		1	5950	JU	EET ALB	05/31/24 14:39
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 13:28

Client Sample ID: BH24-31 0.0'
Date Collected: 05/26/24 09:30
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 13:09
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 13:09
Total/NA	Prep	SHAKE			6042	JU	EET ALB	06/03/24 15:57
Total/NA	Analysis	8015M/D		1	6100	JU	EET ALB	06/04/24 11:54
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 14:05

Client Sample ID: BH24-31 2.0'
Date Collected: 05/26/24 12:25
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 13:32
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 13:32
Total/NA	Prep	SHAKE			5888	SB	EET ALB	05/30/24 14:54
Total/NA	Analysis	8015M/D		1	5950	JU	EET ALB	05/31/24 15:30
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 14:42

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Lab Chronicle

Client: Vertex

Job ID: 885-5206-1

Project/Site: PLU 20-8 Brushy Draw 104H

Client Sample ID: BH24-11 0FT

Lab Sample ID: 885-5206-27

Date Collected: 05/24/24 10:00

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 13:56
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 13:56
Total/NA	Prep	SHAKE			5888	SB	EET ALB	05/30/24 14:54
Total/NA	Analysis	8015M/D		1	5950	JU	EET ALB	05/31/24 15:43
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 14:54

Client Sample ID: BH24-11 2FT

Lab Sample ID: 885-5206-28

Date Collected: 05/24/24 10:15

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 14:19
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 14:19
Total/NA	Prep	SHAKE			5888	SB	EET ALB	05/30/24 14:54
Total/NA	Analysis	8015M/D		1	5950	JU	EET ALB	05/31/24 15:55
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 15:07

Client Sample ID: BH24-12 0FT

Lab Sample ID: 885-5206-29

Date Collected: 05/24/24 10:30

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 14:43
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 14:43
Total/NA	Prep	SHAKE			6042	JU	EET ALB	06/03/24 15:57
Total/NA	Analysis	8015M/D		1	6100	JU	EET ALB	06/04/24 12:05
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 15:19

Client Sample ID: BH24-12 2FT

Lab Sample ID: 885-5206-30

Date Collected: 05/24/24 10:45

Matrix: Solid

Date Received: 05/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 15:06

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Lab Chronicle

Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-12 2FT
Date Collected: 05/24/24 10:45
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 15:06
Total/NA	Prep	SHAKE			5888	SB	EET ALB	05/30/24 14:54
Total/NA	Analysis	8015M/D		1	5950	JU	EET ALB	05/31/24 16:21
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 15:56

Client Sample ID: BH24-13 0FT
Date Collected: 05/24/24 11:00
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 15:30
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 15:30
Total/NA	Prep	SHAKE			6042	JU	EET ALB	06/03/24 15:57
Total/NA	Analysis	8015M/D		1	6100	JU	EET ALB	06/04/24 13:00
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 16:08

Client Sample ID: BH24-13 2FT
Date Collected: 05/24/24 11:15
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 18:37
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 18:37
Total/NA	Prep	SHAKE			6042	JU	EET ALB	06/03/24 15:57
Total/NA	Analysis	8015M/D		1	6100	JU	EET ALB	06/04/24 13:11
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 16:21

Client Sample ID: BH24-14 0FT
Date Collected: 05/24/24 11:30
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 19:01
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 19:01

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Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Client Sample ID: BH24-14 0FT
Date Collected: 05/24/24 11:30
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			5888	SB	EET ALB	05/30/24 14:54
Total/NA	Analysis	8015M/D		1	5950	JU	EET ALB	05/31/24 16:59
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 16:33

Client Sample ID: BH24-14 2FT
Date Collected: 05/24/24 11:45
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 19:24
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 19:24
Total/NA	Prep	SHAKE			6042	JU	EET ALB	06/03/24 15:57
Total/NA	Analysis	8015M/D		1	6100	JU	EET ALB	06/04/24 13:21
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 16:45

Client Sample ID: BH24-15 0FT
Date Collected: 05/24/24 12:00
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 19:48
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 19:48
Total/NA	Prep	SHAKE			6042	JU	EET ALB	06/03/24 15:57
Total/NA	Analysis	8015M/D		1	6100	JU	EET ALB	06/04/24 13:32
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		100	5986	JT	EET ALB	06/01/24 08:47

Client Sample ID: BH24-15 2FT
Date Collected: 05/24/24 12:15
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 20:34
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 20:34
Total/NA	Prep	SHAKE			5888	SB	EET ALB	05/30/24 14:54
Total/NA	Analysis	8015M/D		1	5950	JU	EET ALB	05/31/24 17:37

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Client: Vertex
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Job ID: 885-5206-1

Client Sample ID: BH24-15 2FT
Date Collected: 05/24/24 12:15
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		50	5986	JT	EET ALB	06/01/24 08:59

Client Sample ID: BH24-15 2.5FT
Date Collected: 05/24/24 12:20
Date Received: 05/29/24 07:55

Lab Sample ID: 885-5206-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8015M/D		1	6130	JP	EET ALB	06/04/24 20:58
Total/NA	Prep	5030C			5880	AT	EET ALB	05/30/24 12:45
Total/NA	Analysis	8021B		1	6131	JP	EET ALB	06/04/24 20:58
Total/NA	Prep	SHAKE			5888	SB	EET ALB	05/30/24 14:54
Total/NA	Analysis	8015M/D		1	5950	JU	EET ALB	05/31/24 17:51
Total/NA	Prep	300_Prep			5922	SS	EET ALB	05/31/24 08:25
Total/NA	Analysis	300.0		20	5977	JT	EET ALB	05/31/24 17:22

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

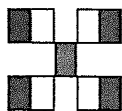
Client: Vertex
Project/Site: PLU 20-8 Brushy Draw 104H

Job ID: 885-5206-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-25



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Chain-of-Custody Record

Client: Vortex

(xT0 Energy)

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)[illegible]

Page 77 of 80

6/7/2024

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record				Turn-Around Time:		
Client: <u>Vertex</u>		☒ Standard ☒ Rush <u>5 DAY</u>				
<u>(xTO Energy)</u> Mailing Address: <u>on file</u>		Project Name: <u>PLU 20-8 Brushy Draw 104 H</u>				
Phone #: <u> </u>		Project #: <u>24E-00666</u>				
email or Fax#: <u> </u>		Project Manager: <u>Sally Carttar</u>				
QA/QC Package: <u> </u>		Sampler: <u>WW/AL</u>				
☐ Standard ☐ Level 4 (Full Validation)		On Ice: ☒ Yes ☐ No				
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other		# of Coolers: <u>1</u> <u>yes</u>				
☐ EDD (Type) <u> </u>		Cooler Temp (including CF): <u>0.6°C = 0.6 (°C)</u>				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
5-24-24	1435	soil	BH24-16 0.0'	402	ICE	11
5-25-24	1000		BH24-22 3.0'			12
	1025		BH24-22 4.0'			13
	1045		BH24-27 0.0'			14
	1320		BH24-16 2.0'			15
	1340		BH24-27 2.0'			16
	1055		BH24-28 0.0'			17
5-24-24	1440		BH24-17 0.0'			18
	1430		BH24-25 0.0'			19
	1425		BH24-26 0.0'			20
			BH24-27			
Relinquished by: <u>Steph L May</u>		Received by: <u> </u>		Date: <u>5/24/24</u> Time: <u>9:40</u>		
Relinquished by: <u> </u>		Received by: <u> </u>		Date: <u>5/24/24</u> Time: <u>7:55</u>		

Chain-of-Custody Record

Client Vertex XTO Energy)

Mailing Address On File

Phone # On File

email or Fax# Scarttar@vertex.ca

QA/QC Package

☐ Standard ☐ Level 4 (Full Validation)Accreditation ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time

☒ Standard☒ Rush 5 DAY

Project Name PLU20-08 104

Project # 24E-00666

Project Manager Sally Carttar

Sampler Wyatt Wadleigh

On Ice ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CP): 0.6 v = 0.6

4091

Container Type and #

Preservative Type

HEAL No.

Date Time Matrix Sample Name

05/24/24 10 00 Soil BH24-11 0ft

05/24/24 10 15 Soil BH24-11 2ft

05/24/24 10 30 Soil BH24-12 0 ft

05/24/24 10 45 Soil BH24-12 2ft

05/24/24 11 00 Soil BH24-13 0 ft

05/24/24 11 15 Soil BH24-13 2 ft

05/24/24 11 30 Soil BH24-14 0ft

05/24/24 11 45 Soil BH24-14 2ft

05/24/24 12 00 Soil BH24-15 0ft

05/24/24 12 15 Soil BH24-15 2 ft

05/24/24 12 20 Soil BH24-15 2 5 ft

05/24/24 12 20 Soil BH24-15 2 5 ft

05/24/24 12 20 Soil BH24-15 2 5 ft

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05/24/24 12 20 Soil BH24-15 2 5 ft

05/24/24 12 20 Soil BH24-15 2 5 ft

05/24/24 12 20 Soil BH24-15 2 5 ft

Date Time

9:40

Date Time

1:00

Relinquished by

Wyatt Wadleigh

Relinquished by

Wyatt Wadleigh

Relinquished by

Wyatt Wadleigh

Relinquished by

Wyatt Wadleigh

Relinquished by

Wyatt Wadleigh

Relinquished by

Wyatt Wadleigh

Relinquished by

Wyatt Wadleigh

Relinquished by

Wyatt Wadleigh

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMBs (8021)

TPH 8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCBs

EDB (Method 504 1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks Please CC wwadleigh@vertex.ca

Cost center Number # 2234951001

If necessary samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-5206-1

Login Number: 5206

List Number: 1

Creator: McQuiston, Steven

List Source: Eurofins Albuquerque

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



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

August 19, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20-8 BRUSHY DRAW 104H

Enclosed are the results of analyses for samples received by the laboratory on 08/15/25 15:28.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/15/2025
Reported: 08/19/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 08/15/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS01 0.5' (H255092-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2025	ND	1.81	90.7	2.00	7.67	
Toluene*	<0.050	0.050	08/18/2025	ND	2.06	103	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/18/2025	ND	2.04	102	2.00	2.83	
Total Xylenes*	<0.150	0.150	08/18/2025	ND	6.14	102	6.00	3.24	
Total BTEx	<0.300	0.300	08/18/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2025	ND	194	97.0	200	3.66	
DRO >C10-C28*	<10.0	10.0	08/18/2025	ND	175	87.7	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/18/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2025
Reported: 08/19/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 08/15/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS02 0.5' (H255092-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2025	ND	1.81	90.7	2.00	7.67		
Toluene*	<0.050	0.050	08/18/2025	ND	2.06	103	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/18/2025	ND	2.04	102	2.00	2.83		
Total Xylenes*	<0.150	0.150	08/18/2025	ND	6.14	102	6.00	3.24		
Total BTEx	<0.300	0.300	08/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2025	ND	194	97.0	200	3.66	
DRO >C10-C28*	<10.0	10.0	08/18/2025	ND	175	87.7	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/18/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2025
Reported: 08/19/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 08/15/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS03 0.5' (H255092-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2025	ND	1.81	90.7	2.00	7.67		
Toluene*	<0.050	0.050	08/18/2025	ND	2.06	103	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/18/2025	ND	2.04	102	2.00	2.83		
Total Xylenes*	<0.150	0.150	08/18/2025	ND	6.14	102	6.00	3.24		
Total BTEx	<0.300	0.300	08/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/18/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2025	ND	194	97.0	200	3.66	
DRO >C10-C28*	<10.0	10.0	08/18/2025	ND	175	87.7	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/18/2025	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2025
Reported: 08/19/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 08/15/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS04 0.5' (H255092-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2025	ND	1.81	90.7	2.00	7.67		
Toluene*	<0.050	0.050	08/18/2025	ND	2.06	103	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/18/2025	ND	2.04	102	2.00	2.83		
Total Xylenes*	<0.150	0.150	08/18/2025	ND	6.14	102	6.00	3.24		
Total BTEX	<0.300	0.300	08/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	08/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2025	ND	194	97.0	200	3.66	
DRO >C10-C28*	<10.0	10.0	08/18/2025	ND	175	87.7	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/18/2025	ND					

Surrogate: 1-Chlorooctane 78.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2025
Reported: 08/19/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 08/15/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS05 0.5' (H255092-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2025	ND	1.81	90.7	2.00	7.67		
Toluene*	<0.050	0.050	08/18/2025	ND	2.06	103	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/18/2025	ND	2.04	102	2.00	2.83		
Total Xylenes*	<0.150	0.150	08/18/2025	ND	6.14	102	6.00	3.24		
Total BTEX	<0.300	0.300	08/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2025	ND	194	97.0	200	3.66	
DRO >C10-C28*	<10.0	10.0	08/18/2025	ND	175	87.7	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/18/2025	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/15/2025
Reported: 08/19/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 08/15/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS06 0.5' (H255092-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2025	ND	1.81	90.7	2.00	7.67		
Toluene*	<0.050	0.050	08/18/2025	ND	2.06	103	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/18/2025	ND	2.04	102	2.00	2.83		
Total Xylenes*	<0.150	0.150	08/18/2025	ND	6.14	102	6.00	3.24		
Total BTEX	<0.300	0.300	08/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2025	ND	194	97.0	200	3.66	
DRO >C10-C28*	<10.0	10.0	08/18/2025	ND	175	87.7	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/18/2025	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2025
Reported: 08/19/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 08/15/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS07 0.5' (H255092-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2025	ND	1.81	90.7	2.00	7.67		
Toluene*	<0.050	0.050	08/18/2025	ND	2.06	103	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/18/2025	ND	2.04	102	2.00	2.83		
Total Xylenes*	<0.150	0.150	08/18/2025	ND	6.14	102	6.00	3.24		
Total BTX	<0.300	0.300	08/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/18/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2025	ND	194	97.0	200	3.66	
DRO >C10-C28*	<10.0	10.0	08/18/2025	ND	175	87.7	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/18/2025	ND					

Surrogate: 1-Chlorooctane 75.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2025
Reported: 08/19/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 08/15/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS08 0.5' (H255092-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2025	ND	1.81	90.7	2.00	7.67		
Toluene*	<0.050	0.050	08/18/2025	ND	2.06	103	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/18/2025	ND	2.04	102	2.00	2.83		
Total Xylenes*	<0.150	0.150	08/18/2025	ND	6.14	102	6.00	3.24		
Total BTEX	<0.300	0.300	08/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/18/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2025	ND	194	97.0	200	3.66	
DRO >C10-C28*	<10.0	10.0	08/18/2025	ND	175	87.7	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/18/2025	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2025
Reported: 08/19/2025
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 08/15/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS09 0.5' (H255092-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2025	ND	1.81	90.7	2.00	7.67		
Toluene*	<0.050	0.050	08/18/2025	ND	2.06	103	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/18/2025	ND	2.04	102	2.00	2.83		
Total Xylenes*	<0.150	0.150	08/18/2025	ND	6.14	102	6.00	3.24		
Total BTEX	<0.300	0.300	08/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	08/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2025	ND	194	97.0	200	3.66	
DRO >C10-C28*	<10.0	10.0	08/18/2025	ND	175	87.7	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/18/2025	ND					

Surrogate: 1-Chlorooctane 72.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Tracy Hilliard

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: 575 937 3906

Fax #:

Project #: 03C1558483

Project Owner: XTO

Project Name: PLU 20-a Basky Draw 10411

Project Location: 32.112121, -105.90622

Sampler Name: Joshua Bailey

Fax #:

BILL TO

P.O. #:

Company: XTO Energy Inc

Attn: Colton Brown

Address: 3104 E Green St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX							
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												ACID/BASE:
4855042	SS01	0.5	G	1																		
	SS02																					
	SS03																					
	SS04																					
	SS05																					
	SS06																					
	SS07																					
	SS08																					
	SS09	0.5	G	1																		

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Relinquished By:

Date: 8/15/05

Received By:

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

All Results are emailed. Please provide Email address: jbailey@ensolum.com, KThomason@ensolum.com

Relinquished By:

Date: 8/15/05

Received By:

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

All Results are emailed. Please provide Email address: jbailey@ensolum.com, KThomason@ensolum.com

Delivered By: (Circle One)

Observed Temp.: °C

Corrected Temp.: °C

Sample Condition

Cool Intact ☐ Yes ☐ No

Turnaround Time:

Cost Center: 2234951001

APC: 30-015-53239

CFM: 48605000 - 50115

Sampler - UPS - Bus - Other:

Observed Temp.: °C

Corrected Temp.: °C

Sample Condition

Cool Intact ☐ Yes ☐ No

Turnaround Time:

Cost Center: 2234951001

APC: 30-015-53239

CFM: 48605000 - 50115

FORM-006 R 3.2 10/07/21

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



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

May 13, 2026

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20-8 BRUSHY DRAW 104H

Enclosed are the results of analyses for samples received by the laboratory on 05/07/26 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/07/2026
Reported: 05/13/2026
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 05/06/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 01 SURFACE (H262587-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2026	ND	2.04	102	2.00	2.65		
Toluene*	<0.050	0.050	05/08/2026	ND	1.96	97.9	2.00	3.42		
Ethylbenzene*	<0.050	0.050	05/08/2026	ND	1.91	95.6	2.00	3.94	GC-NC	
Total Xylenes*	<0.150	0.150	05/08/2026	ND	5.79	96.5	6.00	3.63	GC-NC	
Total BTEx	<0.300	0.300	05/08/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	05/08/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	82.5	10.0	05/08/2026	ND	194	97.2	200	1.18	
DRO >C10-C28*	6870	10.0	05/08/2026	ND	197	98.6	200	0.299	QM-07
EXT DRO >C28-C36	649	10.0	05/08/2026	ND					

Surrogate: 1-Chlorooctane 97.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 124 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/07/2026
Reported: 05/13/2026
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 05/06/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 01A 2 (H262587-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2026	ND	2.04	102	2.00	2.65		
Toluene*	<0.050	0.050	05/08/2026	ND	1.96	97.9	2.00	3.42		
Ethylbenzene*	<0.050	0.050	05/08/2026	ND	1.91	95.6	2.00	3.94		
Total Xylenes*	<0.150	0.150	05/08/2026	ND	5.79	96.5	6.00	3.63		
Total BTX	<0.300	0.300	05/08/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	05/08/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2026	ND	194	97.2	200	1.18	
DRO >C10-C28*	226	10.0	05/11/2026	ND	197	98.6	200	0.299	
EXT DRO >C28-C36	13.4	10.0	05/11/2026	ND					

Surrogate: 1-Chlorooctane 93.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 96.5 % 39.9-141

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/07/2026
Reported: 05/13/2026
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.112121-103.90622

Sampling Date: 05/06/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 01B 3 (H262587-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2026	ND	2.04	102	2.00	2.65		
Toluene*	<0.050	0.050	05/08/2026	ND	1.96	97.9	2.00	3.42		
Ethylbenzene*	<0.050	0.050	05/08/2026	ND	1.91	95.6	2.00	3.94		
Total Xylenes*	<0.150	0.150	05/08/2026	ND	5.79	96.5	6.00	3.63		
Total BTEX	<0.300	0.300	05/08/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/08/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2026	ND	194	97.2	200	1.18	
DRO >C10-C28*	306	10.0	05/08/2026	ND	197	98.6	200	0.299	
EXT DRO >C28-C36	25.6	10.0	05/08/2026	ND					

Surrogate: 1-Chlorooctane 73.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.4 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Pg _____ of _____

Company Name: Ensolum, LLC Project Manager: Troy Hillard Address: 3122 National Parks Hwy City: Carlsbad State: NM Zip: 88220 Phone #: 575 937 5906 Fax #: Project #: 03C15506 483 Project Owner: XTO Energy, Inc Project Name: PLV 20-8 Brushy Draw 104H Project Location: 32.112121, -105.90622 Sampler Name: Joshua Boxley										P.O. #: Company: XTO Energy, Inc Attn: Dale Woodall Address: 3104 E Greene St City: Carlsbad State: NM Zip: 88220 Phone #: Fax #:		BILL TO		ANALYSIS REQUEST							
FOR LAB USE ONLY										Matrix ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		Preserv ☐ ACID/BASE: ☐ ICE / COOL ☐ OTHER :		Sampling DATE TIME		Chlorides TPH BTEX					
Lab I.D. Sample I.D. Depth (feet) (G)RAB OR (C)OMP. # CONTAINERS										☒ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		☒ ACID/BASE: ☒ ICE / COOL ☐ OTHER :		DATE TIME		Chlorides TPH BTEX					
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.										Matrix ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		Preserv ☐ ACID/BASE: ☐ ICE / COOL ☐ OTHER :		Sampling DATE TIME		Chlorides TPH BTEX					
Relinquished By: <i>[Signature]</i> Date: 5-7-24 Received By: <i>[Signature]</i> Date: 5-7-24										Matrix ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		Preserv ☐ ACID/BASE: ☐ ICE / COOL ☐ OTHER :		Sampling DATE TIME		Chlorides TPH BTEX					
Relinquished By: <i>[Signature]</i> Date: 5-7-24 Received By: <i>[Signature]</i> Date: 5-7-24										Matrix ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		Preserv ☐ ACID/BASE: ☐ ICE / COOL ☐ OTHER :		Sampling DATE TIME		Chlorides TPH BTEX					
Delivered By: (Circle One) ☒ UPS ☐ Bus ☐ Other:										Matrix ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		Preserv ☐ ACID/BASE: ☐ ICE / COOL ☐ OTHER :		Sampling DATE TIME		Chlorides TPH BTEX					
Observed Temp. °C 0.8 Corrected Temp. °C 0.9 Sample Condition ☒ Cool ☐ Intact ☐ Yes ☐ No										Matrix ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		Preserv ☐ ACID/BASE: ☐ ICE / COOL ☐ OTHER :		Sampling DATE TIME		Chlorides TPH BTEX					
Turnaround Time: 5 day Standard ☒ Rush ☐ Cost Center: 2234951001 GFCM: 48605000 - 50115										Matrix ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		Preserv ☐ ACID/BASE: ☐ ICE / COOL ☐ OTHER :		Sampling DATE TIME		Chlorides TPH BTEX					
REMARKS: Incident: WHP240475069 Cost Center: 2234951001 GFCM: 48605000 - 50115										Matrix ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		Preserv ☐ ACID/BASE: ☐ ICE / COOL ☐ OTHER :		Sampling DATE TIME		Chlorides TPH BTEX					
Verbal Result: ☐ Yes ☐ No Add'l Phone #:										Matrix ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		Preserv ☐ ACID/BASE: ☐ ICE / COOL ☐ OTHER :		Sampling DATE TIME		Chlorides TPH BTEX					
All Results are emailed. Please provide Email address: <i>[Email Address]</i>										Matrix ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		Preserv ☐ ACID/BASE: ☐ ICE / COOL ☐ OTHER :		Sampling DATE TIME		Chlorides TPH BTEX					
Incident: WHP240475069 Cost Center: 2234951001 GFCM: 48605000 - 50115										Matrix ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		Preserv ☐ ACID/BASE: ☐ ICE / COOL ☐ OTHER :		Sampling DATE TIME		Chlorides TPH BTEX					
Turnaround Time: 5 day Standard ☒ Rush ☐ Cost Center: 2234951001 GFCM: 48605000 - 50115										Matrix ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER :		Preserv ☐ ACID/BASE: ☐ ICE / COOL ☐ OTHER :									



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

June 03, 2026

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20-8 BRUSHY DRAW 104H

Enclosed are the results of analyses for samples received by the laboratory on 05/28/26 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C26-00106. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/28/2026
Reported: 06/03/2026
Project Name: PLU 20-8 BRUSHY DRAW 104H
Project Number: 03C1558483
Project Location: XTO 32.11247-103.90588

Sampling Date: 05/27/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH01 C 4' (H263002-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2026	ND	2.23	112	2.00	1.09	
Toluene*	<0.050	0.050	05/29/2026	ND	2.17	109	2.00	0.253	
Ethylbenzene*	<0.050	0.050	05/29/2026	ND	2.12	106	2.00	0.338	
Total Xylenes*	<0.150	0.150	05/29/2026	ND	6.19	103	6.00	0.559	
Total BTX	<0.300	0.300	05/29/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	05/29/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2026	ND	190	94.9	200	0.0247	
DRO >C10-C28*	<10.0	10.0	05/29/2026	ND	192	96.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	05/29/2026	ND					

Surrogate: 1-Chlorooctane 77.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.4 % 39.9-141

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg 1 of 1

Company Name: Ensolum, LLC

Project Manager: Tracy Hilliard

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: (575) 937-3906

Fax #:

Project #: 03C1558483

Project Owner: XTO Energy, Inc

Project Name: PLU 20-8 Brushy Draw 104H

Project Location: 32.11247, -103.90588

Sampler Name: Trevor Wargo

BILL TO

P.O. #:

Company: XTO Energy, Inc

Attn: Dale Woodall

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500						
Hel 3003	BH01C	4	✓	✓	GROUNDWATER			5/27/26	11:14	✓	✓	✓	✓	✓	✓	✓	✓	✓
	BH01D	5	✓	✓	WASTEWATER				12:20	✓	✓	✓	✓	✓	✓	✓	✓	✓
					SOIL													
					OIL													
					SLUDGE													
					OTHER :													
					ACID/BASE:													
					ICE / COOL													
					OTHER :													

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Relinquished By: *Ben Giff*
Date: 5-31-26
Time: 13:10
Received By: *Muana Chabre*
Date: *6-2-26*
Time: *09:00*

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: *0.8*
Observed Temp. °C: *0.8*
Corrected Temp. °C: *0.9*

Sample Condition
☒ Cool ☒ Intact
☐ Yes ☐ No
CHECKED BY: *AS*
(Initials)

Turnaround Time: *Standard*
Thermometer ID: *#140*
Correction Factor: *10.1*
Bacteria (only) Sample Condition
☐ Cool ☐ Intact
☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

Remarks: Incident: nAPP2404/50069
Cost Center: 2234951001
GFCM: 48605000

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

All Results are emailed. Please provide Email address:
timorrissey, kthomason, bbell, jreich, thillard@ensolum.com,
richard.kotzur@exxonmobil.com, twargo@ensolum.com, dorthe@ensolum.com



APPENDIX E

NMOCD Correspondence

From: [Hamlet, Robert, EMNRD](#)
To: [Brown, Colton S](#)
Cc: [Dirkx, Kaylan](#); robert.d.woodall@exxonmobil.com; [Mcafee, Ashley A](#); [Tacoma Morrissey](#); [Ben Belill](#); [Tracy Hillard](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#)
Subject: (Extension Denied) - XTO - Status Update - PLU 20-8 Brushy Draw 104H - NAPP2404750069
Date: Monday, March 3, 2025 12:45:14 PM

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2404750069**

Colton,

Multiple extensions have already been granted for this incident. Your request for another extension is **denied**. Please, include this e-mail correspondence in the Remediation Closure Report.

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: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, March 3, 2025 10:45 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] XTO - Status Update - PLU 20-8 Brushy Draw 104H - NAPP2404750069

From: Brown, Colton S <colton.s.brown@exxonmobil.com>
Sent: Monday, March 3, 2025 10:35 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dirkx, Kaylan <kaylan.dirkx@exxonmobil.com>; Woodall, Robert D <robert.d.woodall@exxonmobil.com>; Mcafee, Ashley A <ashley.a.mcafee@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>; Tracy Hillard <thillard@ensolum.com>
Subject: [EXTERNAL] XTO - Status Update - PLU 20-8 Brushy Draw 104H - NAPP2404750069

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

XTO is providing a remediation status update for a release of produced water that occurred at the PLU 20-8 Brushy Draw 104H (Incident Number NAPP2404750069) Site. The release occurred on February 2, 2024. A Remediation Work Plan was submitted on October 29, 2024, detailing delineation activities that were completed. On December 4, 2024, the Remediation Work Plan was approved. Composite sampling of the release extent began on January 2, 2025. Excavation of impacted soil occurred between February 6 and February 25, 2025. All impacted soil initially identified has been excavated to date; however, a few composite samples within the release area were not in compliance with Closure Criteria, requiring additional excavation. Following the completion of the additional excavation and receipt of final laboratory analytical results, XTO will submit a closure report detailing excavation and sampling activities. Based on the information provided, XTO respectfully requests a 90-day extension until June 4, 2025.

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

From: [Hamlet, Robert, EMNRD](#)
To: [Brown, Colton S](#)
Cc: [Dirkx, Kaylan](#); [Tacoma Morrissey](#); [Ben Belill](#); [Tracy Hillard](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] XTO - NMOCD Clarification - PLU 20-8 Brushy Draw 104H (Incident Number nAPP2404750069)
Date: Tuesday, December 17, 2024 8:59:30 AM

[**EXTERNAL EMAIL **]

No Problem. Thanks for Checking.

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: Tuesday, December 17, 2024 7:47 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Dirkx, Kaylan <kaylan.dirkx@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>; Tracy Hillard <thillard@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] XTO - NMOCD Clarification - PLU 20-8 Brushy Draw 104H (Incident Number nAPP2404750069)

Good morning,

Robert, I appreciate the clarification on the sidewall sampling. We just wanted to make sure we are getting it right before we proceed.

Thank You

Colton Brown
Wastewater Advisor

ExxonMobil Upstream Company
3104 E. Greene St.
Carlsbad, NM 88220
Cell Phone: 575-988-2390
colton.s.brown@exxonmobil.com

-

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Tuesday, December 17, 2024 7:35 AM
To: Brown, Colton S <colton.s.brown@exxonmobil.com>
Cc: Dirkx, Kaylan <kaylan.dirkx@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>; Tracy Hillard <thillard@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] XTO - NMOCD Clarification - PLU 20-8 Brushy Draw 104H (Incident Number nAPP2404750069)

Colton,

If there's no excavation, the best thing to do in lieu of sidewalls is to grab a clean sample (surface or 6" deep sample) at the very edge of the release area. Technically, it's not a sidewall if it's taken from the edge of the release area, but it does horizontally delineate the release in a similar manner and shows the contaminants were laterally defined. Unlike vertical samples, which are closely tied to groundwater determination and Table 1 of the OCD Spill Rule, sidewall/edge samples always need to be delineated 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release.

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: Monday, December 16, 2024 3:11 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Dirkx, Kaylan <kaylan.dirkx@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>; Tracy Hillard <thillard@ensolum.com>
Subject: [EXTERNAL] XTO - NMOCD Clarification - PLU 20-8 Brushy Draw 104H (Incident Number nAPP2404750069)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear Mr. Hamlet,

Thank you for your review and approval of the Remediation Work Plan associated with Incident Number nAPP2404750069. However, we would appreciate a little clarification on the conditions of approval. For the portion of the release that is not expected to be excavated, you stated, "The release area will still need confirmation sidewall samples representing no more than 200 ft2." We do not expect to collect sidewall soil samples in areas with no excavation, however, surface confirmation soil samples would be collected at the proposed 400 square foot sampling frequency. Please confirm if we are interpreting this approval appropriately.

Thank you

Colton Brown

Wastewater Advisor

ExxonMobil Upstream Company

3104 E. Greene St.

Carlsbad, NM 88220

Cell Phone: 575-988-2390

colton.s.brown@exxonmobil.com

-

From: [Hamlet, Robert, EMNRD](#)
To: [Brown, Colton S](#)
Cc: [Dirkx, Kaylan](#); [Tacoma Morrissey](#); [Ben Belill](#); [Tracy Hillard](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#)
Subject: (Variance Approval) - XTO - PLU 20-8 Brushy Draw 104H - nAPP2404750069
Date: Wednesday, February 12, 2025 8:33:11 AM

[**EXTERNAL EMAIL **]

Colton,

The variance for the 2-business sampling notification is approved. In the future, please make sure 2 full business days notification is given to the OCD in case an environmental representative would like to meet you on site.

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: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, February 11, 2025 4:20 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] XTO - Sampling Notification Variance - PLU 20-8 Brushy Draw 104H - nAPP2404750069

From: Brown, Colton S <colton.s.brown@exxonmobil.com>
Sent: Tuesday, February 11, 2025 3:44 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dirkx, Kaylan <kaylan.dirkx@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>; Tracy Hillard <thillard@ensolum.com>
Subject: [EXTERNAL] XTO - Sampling Notification Variance - PLU 20-8 Brushy Draw 104H - nAPP2404750069

CAUTION: This email originated outside of our organization. Exercise caution prior to

clicking on links or opening attachments.

All,

XTO is requesting a variance of the 48-hr sampling notification (C-141N) requirement for a spill at PLU 20-8 Brushy Draw 104H - Incident Number nAPP2404750069. A sampling notification was submitted for February 10- February 11, 2025, however, additional excavation is required. In order to submit a remediation work plan or closure request required in 19.15.29.12.B.(1) NMAC by the deadline, one additional day of excavation and sampling is needed. XTO requests the additional samples collected may be used for closure, providing that they meet applicable closure limits. XTO requests to complete sampling tomorrow, February 12, 2025. Following approval of the variance, a C-141N will be submitted via the portal and the correspondence will be included in the final report.

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

Tracy Hillard

Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 478220

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Friday, August 1, 2025 9:57 AM

To: Brown, Colton S <colton.s.brown@exxonmobil.com>

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 478220

To whom it may concern (c/o Colton Brown for XTO ENERGY, INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2404750069, for the following reasons:

- **The Deferral Request is Denied. Before we can approve a deferral, the spill must be fully delineated. If horizontal delineation samples on pad eventually reach a mechanical barrier, (such as pipeline or battery) sample(s) should be obtained as near as possible on the linear opposite side of said barrier and as close as possible to barrier. All sidewalls must be fully delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 478220.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,

Robert Hamlet

575-748-1283

Robert.Hamlet@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

From: [Tacoma Morrissey](#)
To: [Kim Thomason](#); [Tracy Hillard](#)
Subject: FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 396840
Date: Wednesday, December 4, 2024 12:19:09 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

This one is approved.

Thanks,



Tacoma Morrissey

Associate Principal

337-257-8307

Ensolum, LLC

in f X

From: Woodall, Robert D <robert.d.woodall@exxonmobil.com>
Sent: Wednesday, December 4, 2024 12:02 PM
To: Tacoma Morrissey <tmorrissey@ensolum.com>; Brown, Colton S <colton.s.brown@exxonmobil.com>; Smith, Kailee /C <kailee.smith@exxonmobil.com>
Subject: Fwd: The Oil Conservation Division (OCD) has approved the application, Application ID: 396840

[**EXTERNAL EMAIL**]

R. Dale Woodall
Wastewater Advisor

EXXONMOBIL Upstream Company
3104 E Greene Street
Carlsbad, NM 88240
Cell Phone: 575-988-4374
Robert.D.Woodall@exxonmobil.com

Begin forwarded message:

From: OCDOnline@state.nm.us
Date: December 4, 2024 at 10:49:50 AM MST
To: "Woodall, Robert D" <robert.d.woodall@exxonmobil.com>
Subject: The Oil Conservation Division (OCD) has approved the

application, Application ID: 396840

To whom it may concern (c/o Robert Woodall for XTO ENERGY, INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2404750069, with the following conditions:

- **The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards 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. All sidewall samples should be taken from the sidewall of the excavation. The Variance Request for 400 ft² floor confirmation sample size is approved. The release area will still need confirmation sidewall samples representing no more than 200 ft². The work will need to occur in 90 days after the report has been reviewed.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505



Appendix F

Spill Volume Calculation

Location:	PLU 20-8 BD 104H	
Spill Date:	2/2/2024	
Area 1		
Approximate Area =	32886.00	sq. ft.
Average Saturation (or depth) of spill =	2.50	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =		bbls
Total Produced Water =	51.61	bbls

TOTAL VOLUME OF LEAK		
Total Crude Oil =		bbls
Total Produced Water =	51.61	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =		bbls
Total Produced Water =	41.00	bbls

District I
1625 N. French Dr., Hobbs, NM 88240
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District III
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District IV
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 315258

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 315258
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2404750069
Incident Name	NAPP2404750069 PLU 20-8 BRUSHY DRAW 104H @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

Location of Release Source

Please answer all the questions in this group.

Site Name	PLU 20-8 Brushy Draw 104H
Date Release Discovered	02/02/2024
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 52 BBL Recovered: 41 BBL Lost: 11 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 315258

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 315258
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 02/16/2024
--	--

District I

1625 N. French Dr., Hobbs, NM 88240
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QUESTIONS, Page 3

Action 315258

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 315258
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

Remediation Plan

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

Requesting a remediation plan approval with this submission	No
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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CONDITIONS

Action 315258

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 315258
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	2/16/2024

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

Action 604187

QUESTIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 604187
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2404750069
Incident Name	NAPP2404750069 PLU 20-8 BRUSHY DRAW 104H @ K-20-25S-30E
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	PLU 20-8 Brushy Draw 104H
Date Release Discovered	02/02/2024
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 52 BBL Recovered: 41 BBL Lost: 11 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 604187

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 604187
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 07/13/2026
--	---

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

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

Action 604187

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 604187
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 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	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	10900
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	7602
GRO+DRO (EPA SW-846 Method 8015M)	6953
BTEX (EPA SW-846 Method 8021B or 8260B)	1
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	04/02/2024
On what date will (or did) the final sampling or liner inspection occur	05/27/2026
On what date will (or was) the remediation complete(d)	05/27/2026
What is the estimated surface area (in square feet) that will be reclaimed	29600
What is the estimated volume (in cubic yards) that will be reclaimed	3300
What is the estimated surface area (in square feet) that will be remediated	11980
What is the estimated volume (in cubic yards) that will be remediated	1000
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Oil Conservation Division
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QUESTIONS, Page 4

Action 604187

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 604187
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 07/13/2026
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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 5

Action 604187

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 604187
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Well head and related equipment
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	400
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	30
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-53239 POKER LAKE UNIT 20 8 BD #104H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 07/13/2026

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QUESTIONS, Page 6

Action 604187

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 604187
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	587141
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/28/2026
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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Santa Fe, NM 87505

CONDITIONS

Action 604187

CONDITIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 604187
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests final remediation for (Incident Number NAPP2404750069) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the area designated as "Deferral Area" on figure 4 that is next to active production equipment, production pipelines and wellheads, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	7/13/2026