



October 7, 2024

New Mexico Oil Conservation Division

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

**Re: Closure Request Addendum
ROW 2 Pipeline
Incident Number nAPP2304148392
Eddy County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared the following addendum to the original *Closure Request* submitted on August 17, 2023. This addendum details the additional remediation activities completed at the ROW 2 Pipeline (Site) in response to the denial by the New Mexico Oil Conservation Division (NMOCD) of the original *Closure Request* on March 1, 2024. In the denial, NMOCD indicated that the Site was located off pad and the reclamation requirement applies to the top 4 feet of the release area. Based on the additional remediation activities described below, XTO is submitting this *Closure Request Addendum* and requesting closure for Incident Number nAPP2304148392.

BACKGROUND

The Site is located in Unit G, Section 20, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.20566°, -103.79571°) 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 January 28, 2023, human error resulted in the failure of a lay flat line overseen by a third-party water transfer company (Quik Pipe). Approximately 144 barrels (bbls) of produced water were released on a pipeline Right-of-Way (ROW) and adjacent pasture area. The release extent is depicted in Figure 2. A vacuum truck was dispatched and recovered approximately 60 bbls of produced water. XTO reported the release to the NMOCD via Notification of Release (NOR) on February 10, 2023 and the Initial C-141 Application (C-141) was submitted the same day. The release was assigned Incident Number nAPP2304148392.

Between March 2023 and May 2023, BDS Enterprises (BDS) was contracted by Qwik Pipe to conduct assessment, delineation, and excavation activities in response to the release. An estimated 1,050 cubic yards of impacted soil were excavated from the Site. Based on the site assessment activities and laboratory analytical results from the soil sampling events, XTO submitted a *Closure Request* on August 17, 2023, requesting no further action (NFA) for the release.

On March 1, 2024, NMOCD denied the *Closure Request* for Incident Number nAPP2304148392 for the following reasons:

- *Release occurred off pad. All off pad areas must contain a minimum of 4 feet nonwaste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Please address this release according to 19.15.29 NMAC.*

After the *Closure Request* was denied by the NMOCD, XTO contracted Ensolum to review the previous *Closure Request* and complete the required additional remedial activities. Ensolum reviewed the *Closure Request* and confirmed the following remedial actions were required:

- The southern portion of the release, labeled Area 1 in Figure 3, was not excavated and required confirmation sampling to confirm the absence of waste-containing soils.
- The eastern portion of the release, labeled Area 2 in Figure 3, was excavated to 2 feet bgs and required additional excavation and confirmation soil sampling to confirm the removal of waste-containing soils.
- The western portion of the excavation, labeled Area 3 in Figure 3, did not have reported depths for the sidewall confirmation samples. As such, the sidewalls in that area of the excavation required additional confirmation soil sampling.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on data from a soil boring drilled to investigate regional groundwater depth. In December 2020, a soil boring permitted by New Mexico Office of the State Engineer (C-4499) was completed approximately 0.26 miles southeast of the Site utilizing hollow stem auger method. Soil boring C-4499 was drilled to a depth of 110 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The temporary well was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 1.76 miles northwest of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

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

ADDITIONAL REMEDIATION ACTIVITIES AND ANALYTICAL RESULTS

Ensolum personnel were onsite between September 3 and September 9, 2024, to complete the additional remedial activities described above.

AREA 1: Confirmation Soil Sampling

In order to confirm the absence of impacted or waste-containing soil in Area 1, forty-four 5-point composite confirmation soil samples were collected from the pasture area that represented no more than 200 square feet of the release extent in an approximate 8,734 square foot area. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples CS01 through CS44 were collected just beneath the ground surface at a depth of approximately 0.5 feet bgs. The soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips and mapped with a handheld GPS unit. The confirmation soil sample locations are depicted on Figure 4.

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

AREA 2: Excavation previously completed to 2 feet bgs; Additional excavation and soil sampling required

Additional excavation activities were performed by use of heavy equipment in Area 2. To direct excavation activities, soil was field screened for VOCs and chloride. Once field screening results indicated waste-containing soil was adequately removed, 5-point composite soil samples were collected every 200 square feet from the floor and 200 square feet from the sidewall of the excavation extent. The 5-point composite samples were collected, handled, and analyzed as described above. Confirmation soil samples FS01 through FS21 were collected from the floor of the excavation at depths ranging from 2 feet to 4 feet bgs. Confirmation soil samples SW07 through SW12 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The confirmation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 4. Photographic documentation of the excavation activities is provided in Appendix B.

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Closure Request Addendum
ROW 2 Pipeline



The Area 2 excavation extent measured approximately 4,048 square feet. A total of approximately 300 cubic yards of impacted soil was removed during the additional excavation activities. The impacted soil was transported and disposed of at the OWL Disposal Facility in Jal, New Mexico.

AREA 3: Excavation previously completed to 4 feet bgs; Soil sampling required

Six sidewall soil samples were collected to confirm the absence of waste-containing soils in the top 4 feet of the previously excavated area. Sidewall soil samples SW01 through SW06 were collected from the previous excavation sidewalls at depths ranging from the ground surface to 4 feet bgs. The 5-point composite samples were collected, handled, and analyzed as described above. The sidewall confirmation soil sample locations are depicted on Figure 4. Photographic documentation of the sampling activities is provided in Appendix B.

During the remedial actions completed between March and May 2023 and the additional excavation and sampling completed in September 2024, a total of approximately 1,370 cubic yards of impacted soil was removed. The impacted soil was transported and disposed of at an approved disposal facility. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation soil samples, sidewall soil samples, and floor soil samples were in compliance with reclamation requirements. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

CLOSURE REQUEST

Additional remediation and sampling activities were conducted at the Site to address the denied *Closure Request* submitted for the January 28, 2023, release of produced water. The denied *Closure Request* is included in Appendix D. Laboratory analytical results for all confirmation soil samples indicated that COC concentrations were compliant with the Closure Criteria and the reclamation requirement in the top four feet. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The disturbed area on the ROW will be re-seeded with an approved BLM seed mixture within 90 days or the next recommended BLM planting season.

Excavation of impacted soil from the top four feet has mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2304148392.

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

XTO Energy, Inc
Closure Request Addendum
ROW 2 Pipeline



Sincerely,
Ensolum, LLC

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

Tracy Hillard
Project Engineer

A handwritten signature in black ink, appearing to read "Ashley L. Ager".

Ashley L. Ager, M.S., P.G.
Program Director

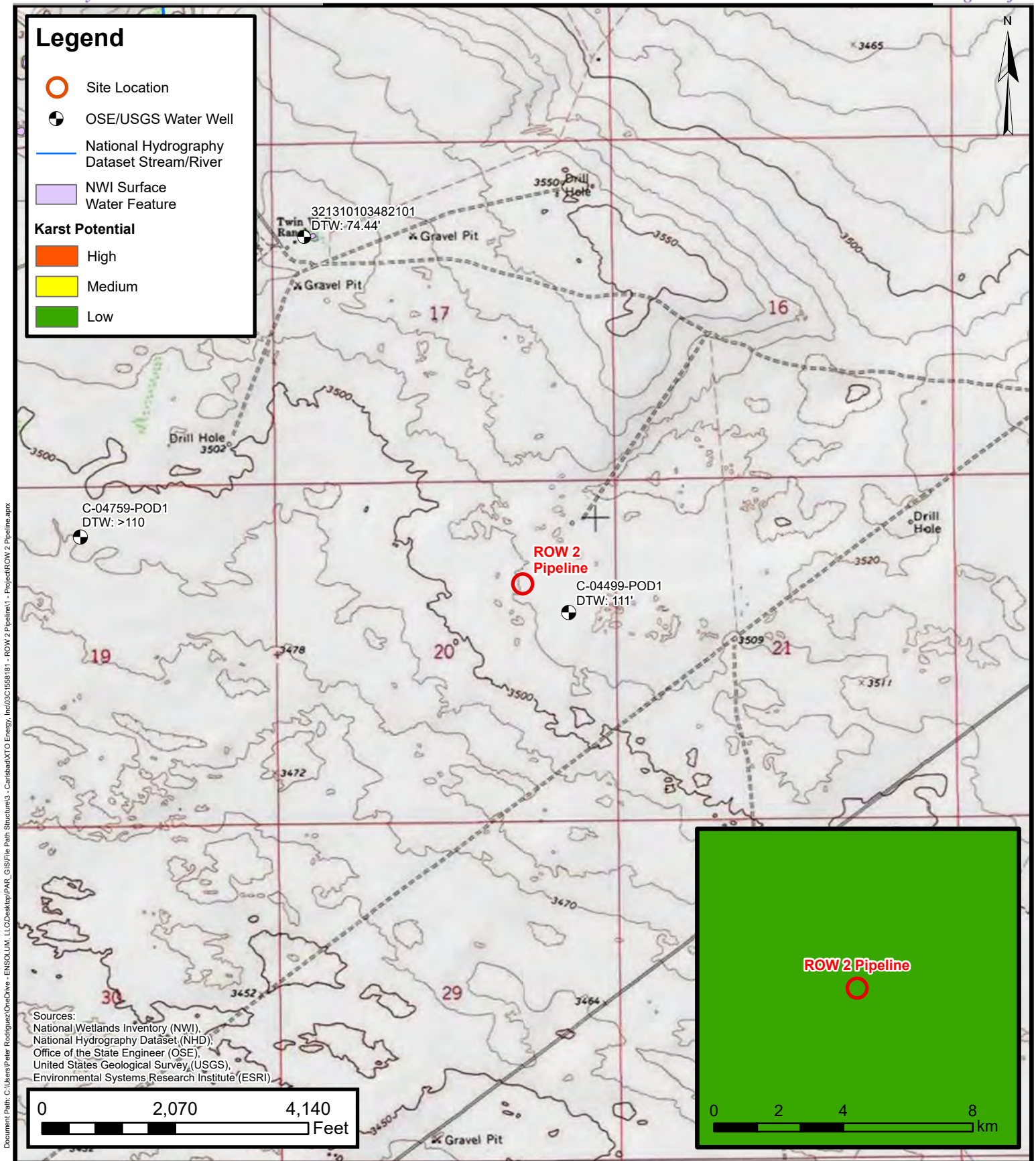
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Release Extent Map
Figure 3	Areas of Additional Remediation Map
Figure 4	Confirmation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Log
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	August 17, 2023 <i>Closure Request</i>



FIGURES



Site Receptor Map

XTO Energy, Inc

ROW 2 Pipeline

Incident Number: nAPP2304148392

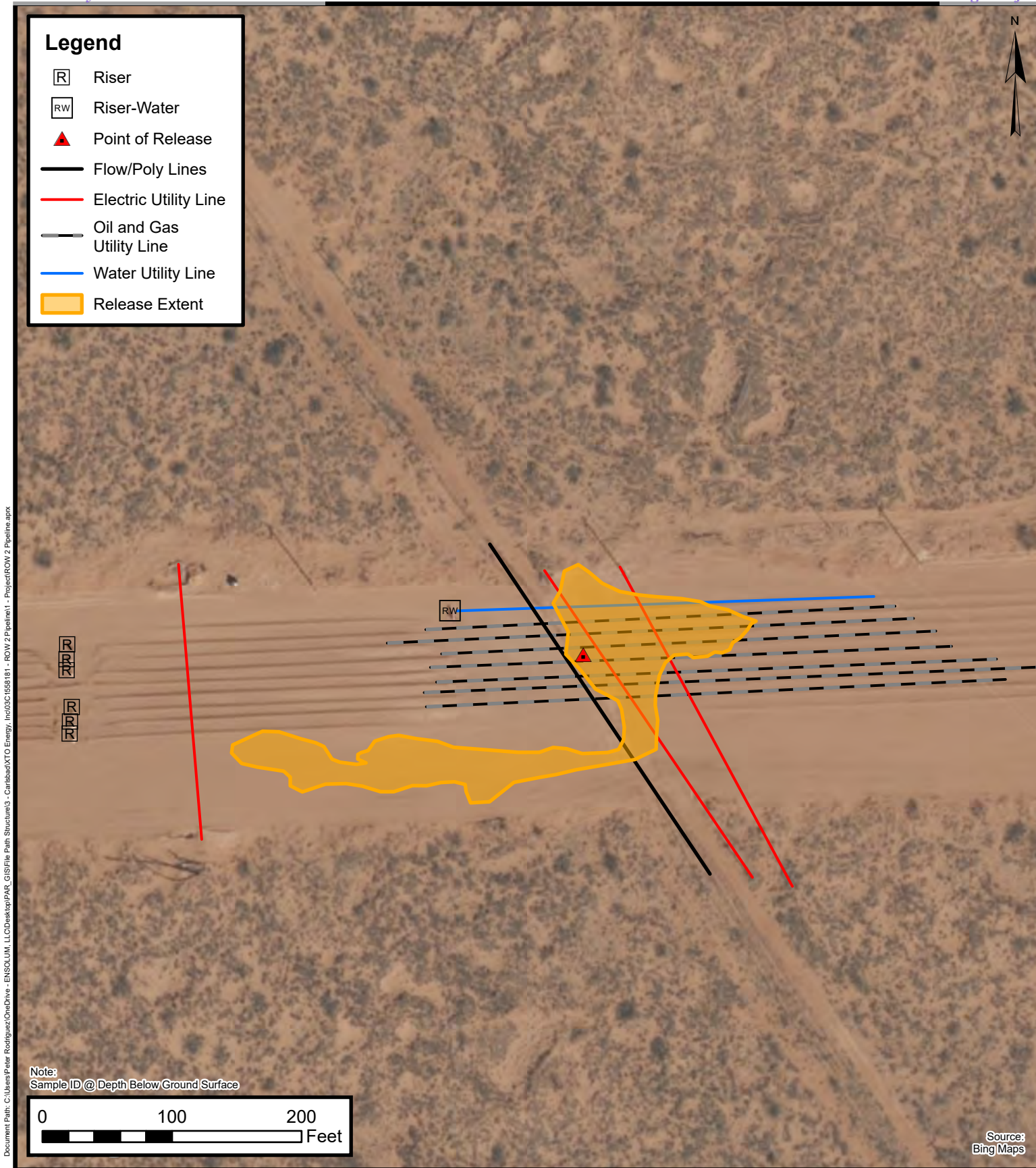
Unit G, Sec 20, T24S, R31E

Eddy County, New Mexico

FIGURE

1

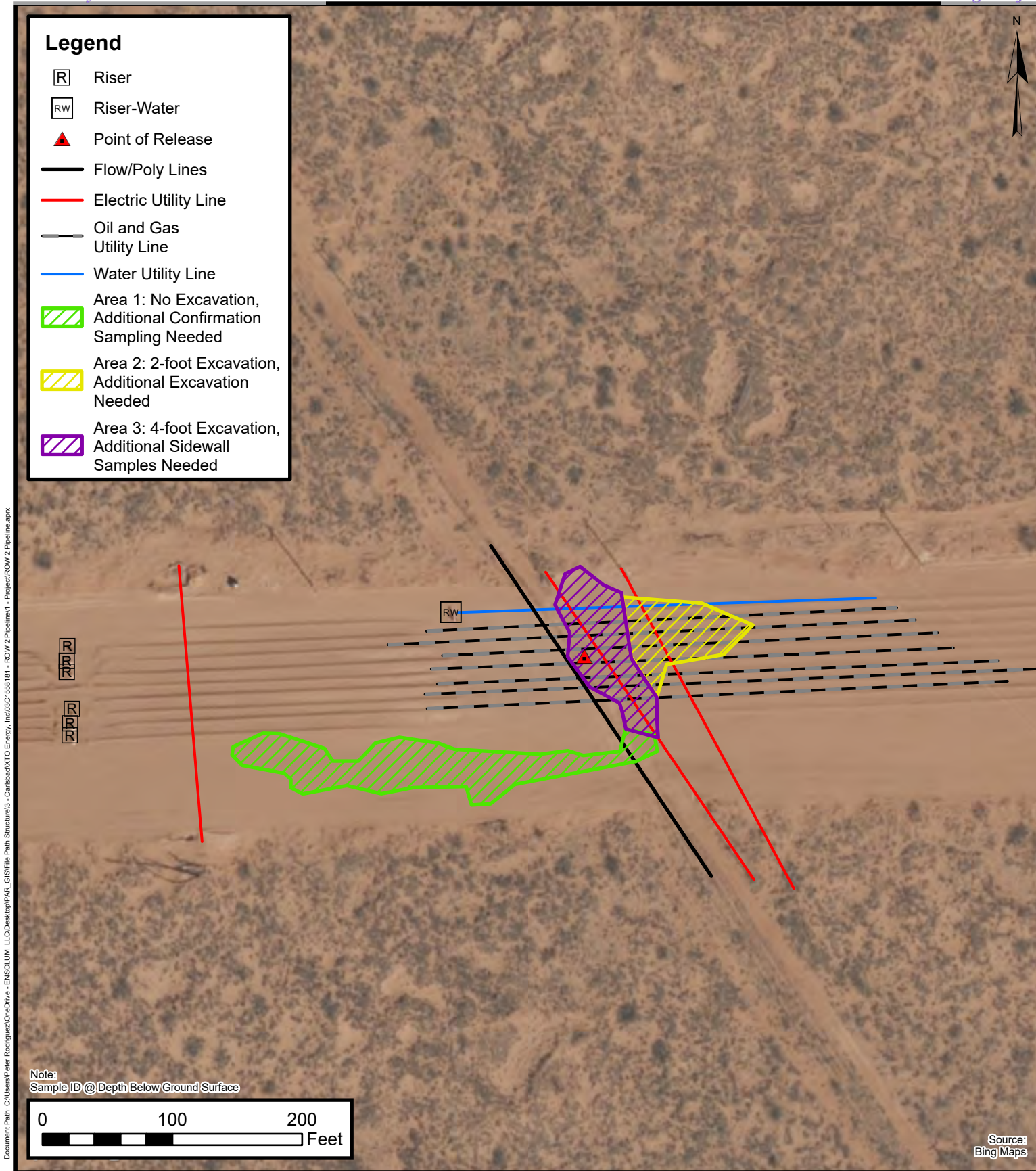




Release Extent Map

XTO Energy, Inc
 ROW 2 Pipeline
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 Unit G, Sec 20, T24S, R31E
 Eddy County, New Mexico

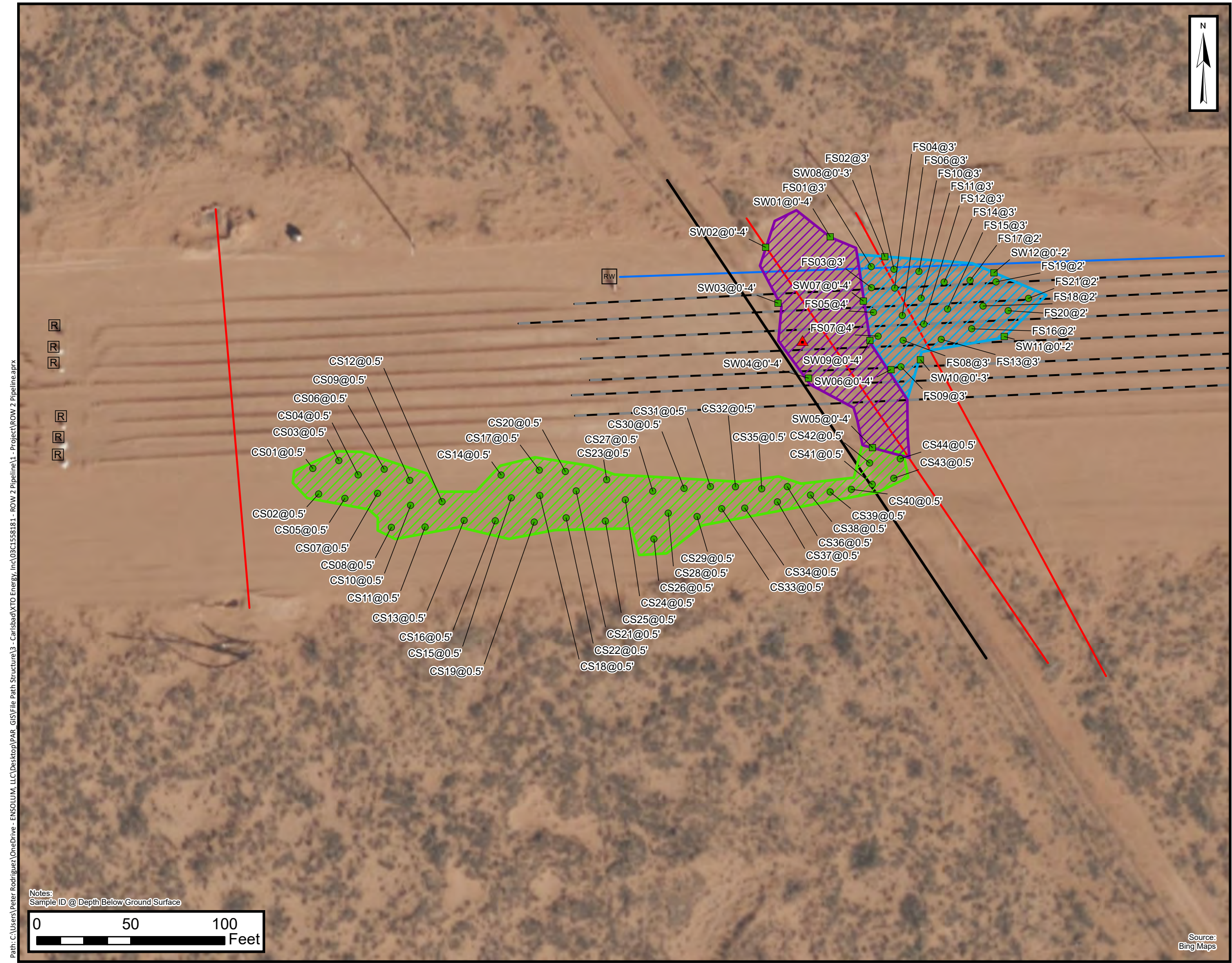
FIGURE
 2



Areas of Additional Remediation Map

XTO Energy, Inc
 ROW 2 Pipeline
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 Unit G, Sec 20, T24S, R31E
 Eddy County, New Mexico

FIGURE
 3



Legend

- Confirmation Sample Compliant with Closure Criteria
- Confirmation Sidewall Sample Compliant with Closure Criteria
- ▲ Point of Release
- Ⓡ Riser
- ⓇⓈ Riser-Water
- Flow/Poly Lines
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- ▨ Area 1: No Excavation, Additional Confirmation Sampling Needed
- ▨ Area 2: 2-foot Excavation, Additional Excavation Needed
- ▨ Area 3: 4-foot Excavation, Additional Sidewall Samples Needed



Confirmation Soil Sample Locations

XTO Energy, Inc
ROW 2 Pipeline
Unit G, Sec 20, T24S, R31E
Eddy County, New Mexico

FIGURE
4

Incident Number: nAPP2304148392



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 ROW 2 Pipeline
 XTO Energy, Inc
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Soil Samples										
CS01	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS02	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS03	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS04	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS05	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS06	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS07	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS08	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS09	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS10	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS11	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS12	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS13	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS14	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS15	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS16	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS17	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS18	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS19	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS20	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS21	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS22	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS23	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS24	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS25	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS26	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS27	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS28	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS29	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
CS29	9/13/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0



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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS30	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS31	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS32	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS33	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS34	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS35	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS36	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS37	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS38	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS39	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS40	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS41	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS42	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS43	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS44	9/3/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
Floor Soil Samples										
FS01	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS02	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS03	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS04	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS05	9/9/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS06	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS07	9/9/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS08	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS09	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS10	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS11	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS12	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS13	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS14	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS15	9/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS16	9/9/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0



TABLE 1
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS17	9/9/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS18	9/9/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS19	9/9/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS20	9/9/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS21	9/9/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Sidewall Soil Samples										
SW01	9/4/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SW02	9/4/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW03	9/4/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW04	9/4/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW05	9/4/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW06	9/4/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW07	9/9/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW08	9/9/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW09	9/9/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW10	9/9/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW11	9/9/2024	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW12	9/9/2024	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities or area was resampled



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (MW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4499			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32°	MINUTES 12'	SECONDS 15.89" N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103°	47'	36.29" W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NE Sec. 20 T24S R31E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 12/30/2020		DRILLING ENDED 12/30/2020		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	110	±8.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4499	POD NO. 1	TRN NO. 182532
LOCATION 24S.31E.20.243	WELL TAG ID NO. ---	PAGE 1 OF 2

OSE DJT JAN 27 2021 PM3:34

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	SAND, well graded, fine-to-large grain particles red-brown, dry	✗ ✓ N	
	6	8	2	SAND, poorly graded, fine grained little clay mod. plasticity, red-brown, moist	Y ✓ N	
	8	11	3	CALICHE, mod. consolidated, some sand, medium /fine grain, white-tan, dry	Y ✓ N	
	11	46	35	CALICHE, mod. consolidated, some sand, medium to fine grain, white-tan, dry.	Y ✓ N	
	46	74	28	SAND, well-graded, medium grain, caliche gravel (1-4mm), light brown, dry.	Y ✓ N	
	74	110	36	SAND, well-graded, fine/large grain, few clay, cohesive, red-brown, dry	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins	01/15/2021
	SIGNATURE OF DRILLER / PRINT SIGNED NAME	DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO.	C-4499	POD NO.	1
LOCATION		TRN NO.	482532
		WELL TAG ID NO.	PAGE 2 OF 2

USE DT JPN 27 2021 PM 3:34






2021-1-15_C-4499_POD1_OSE_Well Record and Log_plu129-forsign

Final Audit Report

2021-01-15

Created:	2021-01-15
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAGs296c366oCiflrLCiy9WDKJlrUnq-9u

"2021-1-15_C-4499_POD1_OSE_Well Record and Log_plu129-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-01-15 - 8:45:00 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-01-15 - 8:45:35 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-01-15 - 9:05:13 PM GMT- IP address: 74.50.153.115
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-01-15 - 9:13:18 PM GMT - Time Source: server- IP address: 74.50.153.115
-  Agreement completed.
2021-01-15 - 9:13:18 PM GMT

OSE DJJ JAN 27 2021 PM3:34



APPENDIX B

Photographic Log

**Photographic Log**

XTO Energy, Inc

ROW 2 Pipeline

nAPP2304148392



Photograph: 1 Date: 9/3/2024
 Description: Area 1 - composite soil sampling activities
 View: Northwest



Photograph: 2 Date: 9/4/2024
 Description: Excavation activities
 View: Northeast



Photograph: 3 Date: 9/6/2024
 Description: Excavation activities
 View: North



Photograph: 4 Date: 9/9/2024
 Description: Final excavation extent
 View: Northwest

**Photographic Log**

XTO Energy, Inc

ROW 2 Pipeline

nAPP2304148392



Photograph: 5

Date: 9/9/2024

Description: Excavation activities

View: Northeast



Photograph: 6

Date: 9/9/2024

Description: Excavation activities

View: Northeast



Photograph: 7

Date: 9/9/2024

Description: Final excavation extent

View: Southeast



Photograph: 8

Date: 9/9/2024

Description: Final excavation extent

View: West



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

September 06, 2024

TACOMA MORRISSEY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: ROW 2

Enclosed are the results of analyses for samples received by the laboratory on 09/03/24 16:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 01 0.5 (H245340-01)

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	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/04/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 02 0.5 (H245340-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEx	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 03 0.5 (H245340-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEX	<0.300	0.300	09/04/2024	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	80.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 04 0.5 (H245340-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEX	<0.300	0.300	09/04/2024	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	16.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 05 0.5 (H245340-05)

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	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEX	<0.300	0.300	09/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	32.0	16.0	09/04/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 06 0.5 (H245340-06)

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	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEX	<0.300	0.300	09/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	16.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 07 0.5 (H245340-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEX	<0.300	0.300	09/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/04/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 08 0.5 (H245340-08)

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	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEX	<0.300	0.300	09/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 09 0.5 (H245340-09)

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	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEX	<0.300	0.300	09/04/2024	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	16.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 100 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 10 0.5 (H245340-10)

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	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEX	<0.300	0.300	09/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	48.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 11 0.5 (H245340-11)

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	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEX	<0.300	0.300	09/04/2024	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	16.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 12 0.5 (H245340-12)

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	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEX	<0.300	0.300	09/04/2024	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	32.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 13 0.5 (H245340-13)

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	09/04/2024	ND	1.91	95.6	2.00	1.09		
Toluene*	<0.050	0.050	09/04/2024	ND	1.86	93.0	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	1.88	94.0	2.00	2.35		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	5.60	93.4	6.00	2.39		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 14 0.5 (H245340-14)

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	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 15 0.5 (H245340-15)

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	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 16 0.5 (H245340-16)

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	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 17 0.5 (H245340-17)

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	09/04/2024	ND	2.11	106	2.00	7.41	
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26	
Total BTEX	<0.300	0.300	09/04/2024	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	48.0	16.0	09/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 18 0.5 (H245340-18)

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	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 19 0.5 (H245340-19)

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	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 20 0.5 (H245340-20)

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	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	16.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 21 0.5 (H245340-21)

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	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 22 0.5 (H245340-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 23 0.5 (H245340-23)

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	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 24 0.5 (H245340-24)

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	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	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	32.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 25 0.5 (H245340-25)

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	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEx	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 26 0.5 (H245340-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEx	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 27 0.5 (H245340-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEx	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 35 0.5 (H245340-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 36 0.5 (H245340-29)

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	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 37 0.5 (H245340-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 38 0.5 (H245340-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEx	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 39 0.5 (H245340-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 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
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 40 0.5 (H245340-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	2.11	106	2.00	7.41		
Toluene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.13	106	2.00	8.86		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.59	110	6.00	8.26		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/04/2024	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	09/04/2024	ND	223	111	200	2.52	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	213	107	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 41 0.5 (H245340-34)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	1.68		
Toluene*	<0.050	0.050	09/04/2024	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.12	106	2.00	4.15		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.51	108	6.00	4.40		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/04/2024	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	09/04/2024	ND	199	99.6	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	201	101	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 42 0.5 (H245340-35)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	1.68		
Toluene*	<0.050	0.050	09/04/2024	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.12	106	2.00	4.15		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.51	108	6.00	4.40		
Total BTEX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/04/2024	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	09/04/2024	ND	199	99.6	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	201	101	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 43 0.5 (H245340-36)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.14	107	2.00	1.68	
Toluene*	<0.050	0.050	09/04/2024	ND	2.05	102	2.00	3.14	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.12	106	2.00	4.15	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.51	108	6.00	4.40	
Total BTEX	<0.300	0.300	09/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/04/2024	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	09/04/2024	ND	199	99.6	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	201	101	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 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, LLC
TACOMA MORRISSEY
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 09/03/2024
Reported: 09/06/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: NONE GIVEN

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 44 0.5 (H245340-37)

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	09/04/2024	ND	2.14	107	2.00	1.68		
Toluene*	<0.050	0.050	09/04/2024	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.12	106	2.00	4.15		
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.51	108	6.00	4.40		
Total BTX	<0.300	0.300	09/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/04/2024	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	09/04/2024	ND	199	99.6	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	201	101	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

15

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Tacona Morrissey

P.O. #:

Address: 601 N Marionsfeld St #420

Company: XTO

City: Midland

State: TX Zip: 79701

Attn: Amy Ruth

Phone #: 337-267-8307

Fax #:

Address:

Project #: 03C1558181 Project Owner:

City: Carlsbad

Project Name: ROW 2

State: NM Zip: 88220

Project Location:

Phone #:

Sample Name: Keoru Skimada, Josh Boxley

Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP		MATRIX						PRESERV		SAMPLING							
			# CONTAINERS		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME					
11245840	CS01	0.5	1	1										9-3-24	1040	X	X	X		
2	CS02		1	1										1041	1043					
3	CS03		1	1										1044	1046					
4	CS04		1	1										1107	1111					
5	CS05		1	1										1115	1117					
6	CS06		1	1										1115	1117					
7	CS07		1	1										1115	1117					
8	CS08		1	1										1115	1117					
9	CS09		1	1										1115	1117					
10	CS10	0.5	1	1										1115	1117					

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Relinquished By:

Date: 9-3-24

Time: 11:50

Received By:

Date: 9-3-24

Time: 11:50

Received By:

Date: 9-3-24

Time: 11:50

Received By:

Date: 9-3-24

Time: 11:50

Received By:

Date: 9-3-24

Time: 11:50

Keoru Skimada

Date: 9-3-24

Time: 11:50

Received By:

Date: 9-3-24

Time: 11:50

Received By:

Date: 9-3-24

Time: 11:50

Received By:

Date: 9-3-24

Time: 11:50

Received By:

Date: 9-3-24

Time: 11:50

Delivered By: (Circle One)

Observed Temp. °C: 28.2

Corrected Temp. °C: 28.2

Sample Condition

Cool Intact

Checked By: (Initials)

Turnaround Time:

Standard

Rush

Bacteria (only) Sample Condition

Cool Intact

Observed Temp. °C

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Observed Temp. °C: 28.2

Corrected Temp. °C: 28.2

Sample Condition

Cool Intact

Checked By: (Initials)

Turnaround Time:

Standard

Rush

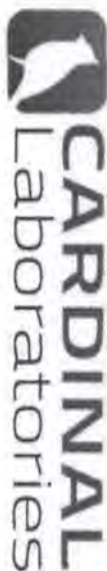
Bacteria (only) Sample Condition

Cool Intact

Observed Temp. °C

Corrected Temp. °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 $\frac{5}{5}$

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC									
Project Manager: <u>Bence Jennings</u> <u>Jayanna Morrissey</u>									
Address: 601 N Marientfeld Street, Suite 400									
City: Midland State: TX Zip: 79701									
Phone #: <u>840-240-8888</u> <u>(537) 257-8307</u>									
Project #: <u>03C1558181</u> Project Owner:									
Project Name: <u>Rov 2</u>									
Project Location:									
Sample Name: <u>Karen Shimada, Josh Boxler</u>									
FOR LAB USE ONLY									
Lab I.D.									
Sample I.D.									
Depth (feet)									
(G)RAB OR (C)OMP.									
# CONTAINERS									
GROUNDWATER									
WASTEWATER									
SOIL									
OIL									
SLUDGE									
OTHER :									
ACID/BASE:									
ICE / COOL									
OTHER :									
DATE									
TIME									
BTEx									
TPH									
Chloride									
8021D									
8015M									
4500									

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Relinquished By: <u>Karen Shimada</u>									
Date: <u>03-24</u>									
Time: <u>1050</u>									
Received By: <u>AP Davis</u>									
Date: _____									
Time: _____									
Delivered By: (Circle One)									
Observed Temp. °C: <u>2.8</u>									
Corrected Temp. °C: <u>2.2</u>									
Sample Condition									
Cool Intact									
Yes Yes									
No No									
CHECKED BY: (Initials)									
<u>AD</u>									
Turnaround Time: <u>Same Incident ID & AFE Keys</u>									
Thermometer ID # <u>44-140</u>									
Correction Factor: <u>-0.06</u>									
Bacteria (only) Sample Condition									
Cool Intact									
Yes Yes									
No No									
Corrected Temp. °C									

Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:									
All Results are emailed. Please provide Email address:									
REMARKS: <u>T Morrissey @ensolum.com</u>									



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

September 09, 2024

TACOMA MORRISSEY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 2

Enclosed are the results of analyses for samples received by the laboratory on 09/05/24 14:40.

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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 28 0.5' (H245376-01)

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	09/06/2024	ND	1.97	98.5	2.00	4.95	
Toluene*	<0.050	0.050	09/06/2024	ND	1.90	94.9	2.00	3.98	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.89	94.7	2.00	3.48	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.64	94.1	6.00	3.72	
Total BTEX	<0.300	0.300	09/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	ND	196	98.0	200	6.56	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	199	99.4	200	9.39	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 29 0.5' (H245376-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2024	ND	1.97	98.5	2.00	4.95		
Toluene*	<0.050	0.050	09/06/2024	ND	1.90	94.9	2.00	3.98		
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.64	94.1	6.00	3.72		
Total BTEX	<0.300	0.300	09/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	1060	16.0	09/09/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	ND	196	98.0	200	6.56	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	199	99.4	200	9.39	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 30 0.5' (H245376-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2024	ND	1.97	98.5	2.00	4.95		
Toluene*	<0.050	0.050	09/06/2024	ND	1.90	94.9	2.00	3.98		
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.64	94.1	6.00	3.72		
Total BTEX	<0.300	0.300	09/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	16.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	ND	196	98.0	200	6.56	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	199	99.4	200	9.39	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 31 0.5' (H245376-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2024	ND	1.97	98.5	2.00	4.95		
Toluene*	<0.050	0.050	09/06/2024	ND	1.90	94.9	2.00	3.98		
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.64	94.1	6.00	3.72		
Total BTEX	<0.300	0.300	09/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/09/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	ND	196	98.0	200	6.56	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	199	99.4	200	9.39	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 32 0.5' (H245376-05)

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	09/06/2024	ND	1.97	98.5	2.00	4.95		
Toluene*	<0.050	0.050	09/06/2024	ND	1.90	94.9	2.00	3.98		
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.64	94.1	6.00	3.72		
Total BTEX	<0.300	0.300	09/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/09/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	ND	196	98.0	200	6.56	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	199	99.4	200	9.39	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 33 0.5' (H245376-06)

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	09/06/2024	ND	1.97	98.5	2.00	4.95		
Toluene*	<0.050	0.050	09/06/2024	ND	1.90	94.9	2.00	3.98		
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.64	94.1	6.00	3.72		
Total BTEX	<0.300	0.300	09/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/09/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	ND	196	98.0	200	6.56	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	199	99.4	200	9.39	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 34 0.5' (H245376-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2024	ND	1.97	98.5	2.00	4.95		
Toluene*	<0.050	0.050	09/06/2024	ND	1.90	94.9	2.00	3.98		
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.64	94.1	6.00	3.72		
Total BTEx	<0.300	0.300	09/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	ND	196	98.0	200	6.56	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	199	99.4	200	9.39	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476
Ensolum, LLC

† Cardinal cannot accept verbal changes. Please email changes to celebrity.keeping@cardinalindiana.com



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

September 09, 2024

TACOMA MORRISSEY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 2

Enclosed are the results of analyses for samples received by the laboratory on 09/05/24 14:40.

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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 01 0-4' (H245394-01)

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	09/06/2024	ND	1.50	75.2	2.00	20.5		
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0		
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9		
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8		
Total BTX	<0.300	0.300	09/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 02 0-4' (H245394-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5		
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0		
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9		
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8		
Total BTEX	<0.300	0.300	09/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	09/09/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 03 0-4' (H245394-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5		
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0		
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9		
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8		
Total BTEX	<0.300	0.300	09/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/09/2024	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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 127 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 04 0-4' (H245394-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5		
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0		
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9		
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8		
Total BTEX	<0.300	0.300	09/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/09/2024	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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 06 0-4' (H245394-05)

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	09/06/2024	ND	1.50	75.2	2.00	20.5		
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0		
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9		
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8		
Total BTEX	<0.300	0.300	09/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/09/2024	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	09/06/2024	ND	196	98.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	191	95.4	200	0.531	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/05/2024
Reported: 09/09/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581-103.79574

Sampling Date: 09/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 05 0-4' (H245394-06)

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	09/06/2024	ND	1.50	75.2	2.00	20.5		
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0		
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9		
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8		
Total BTEX	<0.300	0.300	09/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/09/2024	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	09/06/2024	ND	196	98.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	191	95.4	200	0.531	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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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: Tacoma Morrissey				P.O. #:																	
Address: 3122 National Parks Hwy				Company: XTO Energy Inc.																	
City: Carlsbad				Attn: Amy Ruth																	
State: NM Zip: 88220				Address: 3104 E Green St																	
Phone #: 337-257-8307				City: Carlsbad																	
Fax #:				State: NM Zip: 88220																	
Project #: 03C1558181				Phone #:																	
Project Name: ROW 2				Fax #:																	
Project Location: 32.20581, -103.79574																					
Sampler Name: Joshua Boxley																					
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING							
										GROUNDWATER						Chloride 4500					
										WASTEWATER						TPH 8015					
										SOIL		✓				BTEX 8021					
										OIL											
										SLUDGE											
										OTHER :											
										ACID/BASE:											
										ICE / COOL											
										OTHER :											
										DATE		TIME									
11245394		SW01		0-4'		C		1		9/4/24		1010									
2		SW02		4-10'		C		1		9/4/24		1140									
3		SW03		10-15'		C		1		9/4/24		1245									
4		SW04		15-20'		C		1		9/4/24		1325									
5		SW05		20-25'		C		1		9/4/24		1555									
6		SW06		25-30'		C		1		9/4/24		1430									
7		SW07		30-35'		C		1		9/4/24		1555									
8		SW08		35-40'		C		1		9/4/24		1555									
9		SW09		40-45'		C		1		9/4/24		1555									
10		SW10		45-50'		C		1		9/4/24		1555									
11		SW11		50-55'		C		1		9/4/24		1555									
12		SW12		55-60'		C		1		9/4/24		1555									
13		SW13		60-65'		C		1		9/4/24		1555									
14		SW14		65-70'		C		1		9/4/24		1555									
15		SW15		70-75'		C		1		9/4/24		1555									
16		SW16		75-80'		C		1		9/4/24		1555									
17		SW17		80-85'		C		1		9/4/24		1555									
18		SW18		85-90'		C		1		9/4/24		1555									
19		SW19		90-95'		C		1		9/4/24		1555									
20		SW20		95-100'		C		1		9/4/24		1555									
21		SW21		100-105'		C		1		9/4/24		1555									
22		SW22		105-110'		C		1		9/4/24		1555									
23		SW23		110-115'		C		1		9/4/24		1555									
24		SW24		115-120'		C		1		9/4/24		1555									
25		SW25		120-125'		C		1		9/4/24		1555									
26		SW26		125-130'		C		1		9/4/24		1555									
27		SW27		130-135'		C		1		9/4/24		1555									
28		SW28		135-140'		C		1		9/4/24		1555									
29		SW29		140-145'		C		1		9/4/24		1555									
30		SW30		145-150'		C		1		9/4/24		1555									
31		SW31		150-155'		C		1		9/4/24		1555									
32		SW32		155-160'		C		1		9/4/24		1555									
33		SW33		160-165'		C		1		9/4/24		1555									
34		SW34		165-170'		C		1		9/4/24		1555									
35		SW35		170-175'		C		1		9/4/24		1555									
36		SW36		175-180'		C		1		9/4/24		1555									
37		SW37		180-185'		C		1		9/4/24		1555									
38		SW38		185-190'		C		1		9/4/24		1555									
39		SW39		190-195'		C		1		9/4/24		1555									
40		SW40		195-200'		C		1		9/4/24		1555									
41		SW41		200-205'		C		1		9/4/24		1555									
42		SW42		205-210'		C		1		9/4/24		1555									
43		SW43		210-215'		C		1		9/4/24		1555									
44		SW44		215-220'		C		1		9/4/24		1555									
45		SW45		220-225'		C		1		9/4/24		1555									
46		SW46		225-230'		C		1		9/4/24		1555									
47		SW47		230-235'		C		1		9/4/24		1555									
48		SW48		235-240'		C		1		9/4/24		1555									
49		SW49		240-245'		C		1		9/4/24		1555									
50		SW50		245-250'		C		1		9/4/24		1555									
51		SW51		250-255'		C		1		9/4/24		1555									
52		SW52		255-260'		C		1		9/4/24		1555									
53		SW53		260-265'		C		1		9/4/24		1555									
54		SW54		265-270'		C		1		9/4/24		1555									
55		SW55		270-275'		C		1		9/4/24		1555									
56		SW56		275-280'		C		1		9/4/24		1555									
57		SW57		280-285'		C		1		9/4/24		1555									
58		SW58		285-290'		C		1		9/4/24		1555									
59		SW59		290-295'		C		1		9/4/24		1555									
60		SW60		295-300'		C		1		9/4/24		1555									
61		SW61		300-305'		C		1		9/4/24		1555									
62		SW62		305-310'		C		1		9/4/24		1555									
63		SW63		310-315'		C		1		9/4/24		1555									
64		SW64		315-320'		C		1		9/4/24		1555									
65		SW65		320-325'		C		1		9/4/24		1555									
66		SW66		325-330'		C		1		9/4/24		1555									
67		SW67		330-335'		C		1		9/4/24		1555									
68		SW68		335-340'		C		1		9/4/24		1555									
69		SW69		340-345'		C		1		9/4/24		1555									
70		SW70		345-350'		C		1		9/4/24		1555									
71		SW71		350-355'		C		1		9/4/24		1555									
72		SW72		355-360'		C		1		9/4/24		1555									
73		SW73		360-365'		C		1		9/4/24		1555									
74		SW74		365-370'		C		1		9/4/24		1555									
75		SW75		370-375'		C		1		9/4/24		1555									
76		SW76		375-380'		C		1		9/4/24		1555									
77		SW77		380-385'		C		1		9/4/24		1555									
78		SW78		385-390'		C		1		9/4/24		1555									
79		SW79		390-395'		C		1		9/4/24		1555									
80		SW80		395-400'		C		1		9/4/24		1555									
81		SW81		400-405'		C		1		9/4/24		1555									
82		SW82		405-410'		C		1		9/4/24		1555									
83		SW83		410-415'		C		1		9/4/24		1555									
84		SW84		415-420'		C		1		9/4/24		1555									
85		SW85		420-425'		C		1		9/4/24		1555									
86		SW86		425-430'		C		1		9/4/24		1555									
87		SW87		430-435'		C		1		9/4/24		1555									
88		SW88		435-440'		C		1		9/4/24		1555									
89		SW89		440-445'		C		1		9/4/24		1555									
90		SW90		445-450'		C		1		9/4/24		1555									
91		SW91		450-455'		C		1		9/4/24		1555									
92		SW92		455-460'		C		1		9/4/24		1555									
93		SW93		460-465'		C		1		9/4/24		1555									
94		SW94		465-470'		C		1		9/4/24		1555									
95		SW95		470-475'		C		1		9/4/24		1555									
96		SW96		475-480'		C		1		9/4/24		1555									
97		SW97		480-485'		C		1		9/4/24		1555									
98		SW98		485-490'		C		1		9/4/24		1555									
99		SW99		490-495'		C		1		9/4/24		1555									
100		SW100		495-500'		C		1		9/4/24		1555									
101		SW101		500-505'		C		1		9/4/24		1555									
102		SW102		505-510'		C		1		9/4/24		1555									
103		SW103		510-515'		C		1		9/4/24		1555									
104		SW104		515-520'		C		1		9/4/24		1555									
105		SW105		520-525'		C		1		9/4/24		1555									
106		SW106		525-530'		C		1		9/4/24		1555									
107		SW107		530-535'		C		1		9/4/24		1555									
108		SW108		535-540'		C		1		9/4/24		1555									
109		SW109		540-545'		C		1		9/4/24		1555									
110		SW110		545-550'		C		1		9/4/24		1555									
111		SW111		550-555'		C		1		9/4/24		1555									
112		SW112		555-560'		C		1		9/4/24		1555									
113		SW113		560-565'		C		1		9/4/24		1555									
114		SW114		565-570'		C		1		9/4/24		1555									
115		SW115		570-575'		C		1		9/4/24		1555									
116		SW116		575-580'		C		1		9/4/24		1555									
117		SW117		580-585'		C		1		9/4/24		1555									
118		SW118		585-590'		C		1		9/4/24		1555									
119		SW119		590-595'																	



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

September 12, 2024

TACOMA MORRISSEY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 2

Enclosed are the results of analyses for samples received by the laboratory on 09/10/24 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 01 3' (H245465-01)

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	09/11/2024	ND	1.95	97.4	2.00	0.997	
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22	
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96	
Total BTX	<0.300	0.300	09/11/2024	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	32.0	16.0	09/11/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 02 3' (H245465-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2024	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	128	16.0	09/11/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 03 3' (H245465-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2024	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	192	16.0	09/11/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 04 3' (H245465-04)

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	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/11/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 05 4' (H245465-05)

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	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/11/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 06 3' (H245465-06)

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	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/11/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 07 4' (H245465-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2024	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	64.0	16.0	09/11/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 08 3' (H245465-08)

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	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	09/11/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 09 3' (H245465-09)

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	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/11/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 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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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 10 3' (H245465-10)

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	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	80.0	16.0	09/11/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 11 3' (H245465-11)

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	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/12/2024	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	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 12 3' (H245465-12)

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	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/12/2024	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	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 13 3' (H245465-13)

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	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/12/2024	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	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 14 3' (H245465-14)

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	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/12/2024	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	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 15 3' (H245465-15)

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	09/11/2024	ND	1.95	97.4	2.00	0.997		
Toluene*	<0.050	0.050	09/11/2024	ND	1.88	93.8	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.86	92.9	2.00	1.69		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.53	92.2	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/12/2024	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	09/11/2024	ND	189	94.3	200	5.78	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	185	92.6	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 16 2' (H245465-16)

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	09/11/2024	ND	1.96	98.2	2.00	5.23		
Toluene*	<0.050	0.050	09/11/2024	ND	2.03	101	2.00	2.81		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.02	101	2.00	1.43		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.40	107	6.00	0.801		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/12/2024	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	09/11/2024	ND	203	101	200	0.760	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	206	103	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 17 2' (H245465-17)

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	09/11/2024	ND	1.96	98.2	2.00	5.23		
Toluene*	<0.050	0.050	09/11/2024	ND	2.03	101	2.00	2.81		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.02	101	2.00	1.43		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.40	107	6.00	0.801		
Total BTEx	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/12/2024	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	09/11/2024	ND	203	101	200	0.760	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	206	103	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 18 2' (H245465-18)

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	09/11/2024	ND	1.96	98.2	2.00	5.23		
Toluene*	<0.050	0.050	09/11/2024	ND	2.03	101	2.00	2.81		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.02	101	2.00	1.43		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.40	107	6.00	0.801		
Total BTEx	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/12/2024	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	09/11/2024	ND	203	101	200	0.760	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	206	103	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 19 2' (H245465-19)

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	09/11/2024	ND	1.96	98.2	2.00	5.23		
Toluene*	<0.050	0.050	09/11/2024	ND	2.03	101	2.00	2.81		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.02	101	2.00	1.43		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.40	107	6.00	0.801		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/12/2024	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	09/11/2024	ND	203	101	200	0.760	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	206	103	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 20 2' (H245465-20)

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	09/11/2024	ND	1.96	98.2	2.00	5.23		
Toluene*	<0.050	0.050	09/11/2024	ND	2.03	101	2.00	2.81		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.02	101	2.00	1.43		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.40	107	6.00	0.801		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/12/2024	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	09/11/2024	ND	203	101	200	0.760	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	206	103	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 21 2' (H245465-21)

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	09/11/2024	ND	1.96	98.2	2.00	5.23		
Toluene*	<0.050	0.050	09/11/2024	ND	2.03	101	2.00	2.81		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.02	101	2.00	1.43		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.40	107	6.00	0.801		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/12/2024	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	09/11/2024	ND	203	101	200	0.760	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	206	103	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 08 0-3' (H245465-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	ND	1.96	98.2	2.00	5.23	
Toluene*	<0.050	0.050	09/11/2024	ND	2.03	101	2.00	2.81	
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.02	101	2.00	1.43	
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.40	107	6.00	0.801	
Total BTEx	<0.300	0.300	09/11/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/12/2024	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	09/11/2024	ND	203	101	200	0.760	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	206	103	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 09 0-4' (H245465-23)

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	09/11/2024	ND	1.96	98.2	2.00	5.23		
Toluene*	<0.050	0.050	09/11/2024	ND	2.03	101	2.00	2.81		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.02	101	2.00	1.43		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.40	107	6.00	0.801		
Total BTEX	<0.300	0.300	09/11/2024	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	176	16.0	09/12/2024	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	09/11/2024	ND	203	101	200	0.760	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	206	103	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 10 0-3' (H245465-24)

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	09/11/2024	ND	1.96	98.2	2.00	5.23		
Toluene*	<0.050	0.050	09/11/2024	ND	2.03	101	2.00	2.81		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.02	101	2.00	1.43		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.40	107	6.00	0.801		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/12/2024	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	09/11/2024	ND	203	101	200	0.760	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	206	103	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 11 0-2' (H245465-25)

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	09/11/2024	ND	1.96	98.2	2.00	5.23		
Toluene*	<0.050	0.050	09/11/2024	ND	2.03	101	2.00	2.81		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.02	101	2.00	1.43		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.40	107	6.00	0.801		
Total BTEX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	192	16.0	09/12/2024	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	09/11/2024	ND	203	101	200	0.760	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	206	103	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 12 0-2' (H245465-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.96	98.2	2.00	5.23		
Toluene*	<0.050	0.050	09/11/2024	ND	2.03	101	2.00	2.81		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.02	101	2.00	1.43		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.40	107	6.00	0.801		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/12/2024	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	09/11/2024	ND	203	101	200	0.760	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	206	103	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/12/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/05/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 07 0-4' (H245465-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.96	98.2	2.00	5.23		
Toluene*	<0.050	0.050	09/11/2024	ND	2.03	101	2.00	2.81		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.02	101	2.00	1.43		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.40	107	6.00	0.801		
Total BTEX	<0.300	0.300	09/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/12/2024	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	09/11/2024	ND	203	101	200	0.760	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	206	103	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

2083

Company Name: Ensolum, LLC

Project Manager: Tacoma Morrissey

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 337-257-8307

Project #: 03C1558181

Project Name: ROW 2

Project Location: 32.20581, -103.79574

Sampler Name: Joshua Boxley

BILL TO

P.O. #:

Company: XTO Energy Inc.

Attn: Amy Ruth

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	PRESERV.	SAMPLING	Chloride 4500	TPH 8015	BTEX 8021
11	FS11	3	C	1	GROUNDWATER					
12	FS12				WASTEWATER					
13	FS13				SOIL					
14	FS14				OIL					
15	FS15	3			SLUDGE					
16	FS16	2			OTHER :					
17	FS17				ACID/BASE:					
18	FS18				ICE / COOL					
19	FS19				OTHER :					
20	FS20	2	C	1						

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Relinquished By: [Signature]

Date: 9/24/24

Time: 1300

Received By: [Signature]

Date: 9/24/24

Time: 1300

Relinquished By: [Signature]

Date: 9/24/24

Time: 1300

Received By: [Signature]

Date: 9/24/24

Time: 1300

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

Yes

No

Checked By: [Signature]

Time: 1300

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Remarks: [Signature]

Standard

Rush

Thermometer ID



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

September 23, 2024

TACOMA MORRISSEY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 2

Enclosed are the results of analyses for samples received by the laboratory on 09/19/24 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/19/2024
Reported: 09/23/2024
Project Name: ROW 2
Project Number: 03C1558181
Project Location: XTO 32.20581,-103.79574

Sampling Date: 09/13/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 29 0.5 (H245700-01)

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	09/20/2024	ND	2.12	106	2.00	1.74	
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	104	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.165	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.51	108	6.00	0.124	
Total BTEX	<0.300	0.300	09/20/2024	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	48.0	16.0	09/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	194	96.8	200	1.30	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	198	99.0	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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

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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*=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

[illegible]



APPENDIX D

August 17, 2023 Closure Request

Closure:

PLUG 17

Eddy County, New Mexico

G-24-24S-30E

Prepared For:

Qwik Pipe

One Lincoln Center

Dallas, TX 75240

Prepared By:

BDS Enterprises

1705 E Greene St.

Carlsbad, NM 88220

August 15, 2023

Qwik Pipe
August 15, 2023

Site Information

On January 28, 2023, a release occurred on the Plug 17 ROW 2 site when an above ground line was found leaking. Due to human error site personnel failed to open a valve which caused a failure in the lay flat line resulting in fluids released to soil. The release was estimated to be 144.49 bbls., a Hydro vac was dispatched and recovered 60 bbls. A C-141 spill notification was submitted to the NMOCD and assigned **Incident No. NAPP2304148392** [Appendix 1](#). The Plug 17 is located in Rural Eddy County at the coordinates (32.205688, -103.795732), approximately 29 miles Southeast of Carlsbad, NM.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Berino complex with 0 to 3 percent slopes and a depth to restrictive feature of more than 80 inches. Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of eolian and piedmont deposits, Holocene to middle Pleistocene in age, and composed of inter-layered eolian sands and piedmont-slope deposits. The soil characterization for this site contains a certain level of natural salinity (2.0 to 4.0 mmhos/cm). Drainage courses in this area are typically well drained [Appendix III](#).

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 111 feet below ground surface (bgs). The referenced POD of C 04499 POD 1 meets the criteria of established Table 1 clean-up criteria. Further research of the Bureau of Land Management Karst data indicates that this site is located within a low range potential Karst area [Appendix III](#).

Site Assessment

On March 14, 2023, BDS Enterprise personnel mobilized to the site to conduct an initial site assessment. The impacted area was mapped with a Trimble Geoexplorer 6000 series and sampled using a hand auger. All soil samples were properly packaged, preserved, and transported to a Hall Laboratory Representative via chain of custody for analysis of Total Chlorides (EPA Method 300.0), TPH (EPA Method 8015M/D and EPA Method 8015D), and BTEX (EPA Method 8021B). Sample Locations are shown in [Appendix II](#), and the results of our assessment sampling event are presented on Table 1. Full laboratory reports can be referenced in [Appendix V](#)

Qwik Pipe
August 15, 2023

Table 1

3/14/2023 Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	GRO + DRO + MRO combined = 1000 mg/kg			2,500 mg/kg	20,000 mg/kg
S-1	3/14/2023	0-1'	ND	ND	ND	ND	ND	0	2800
	3/14/2023	2'	ND	ND	ND	ND	ND	0	1700
	3/14/2023	3'	ND	ND	ND	ND	ND	0	1300
	3/14/2023	4'	ND	ND	ND	ND	ND	0	330
S-2	3/14/2023	0-1'	ND	ND	ND	ND	ND	0	4100
	3/14/2023	2' R	ND	ND	ND	ND	ND	0	5300
S-3	3/14/2023	0-1'	ND	ND	ND	ND	ND	0	3700
	3/14/2023	2'	ND	ND	ND	ND	ND	0	380
	3/14/2023	3' R	ND	ND	ND	ND	ND	0	ND
S-4	3/14/2023	0-1'	ND	ND	ND	ND	ND	0	2500
	3/14/2023	2'	ND	ND	ND	ND	ND	0	3500
	3/14/2023	3' R	ND	ND	ND	ND	ND	0	3000
BG-1	3/14/2023	0'	ND	ND	ND	ND	ND	0	ND
BG-2	3/14/2023	0'	ND	ND	ND	ND	ND	0	360
BG-3	3/14/2023	0'	ND	ND	ND	ND	ND	0	180
BG-4	3/14/2023	0'	ND	ND	ND	ND	ND	0	270
BG = Background Sample ND = Analyte Not Detected R = Refusal with Hand Auger									

On May 2, 2023, based on the laboratory results from the initial site assessment and upon client authorization, BDS Enterprises personnel and equipment were mobilized to the site in order to complete the vertical delineation. Using a geo-probe with geo-push technology we advanced sample positions S-2 and S-4. On sample position BH-2 (S-2) we encountered hard rock refusal at 6 feet below ground surface (bgs). The geo-probe was then mobilized to sample position S-4, labeled as BH-4. Borehole positions will be included on the site map in [Appendix II](#).

Table II:

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	GRO + DRO + MRO combined = 100 mg/kg			2,500 mg/kg	10,000 mg/kg
BH-2	5/2/2023	4'	NT	NT	NT	NT	NT	0	1000
	5/2/2023	6' R	NT	NT	NT	NT	NT	0	2600
BH-4	5/2/2023	5' R	NT	NT	NT	NT	NT	0	160
BH = Borehole Sample, NT = Analyte Not Tested, R = Refusal with hand auger									

Qwik Pipe
August 15, 2023

On May 23, 2023 the following Scope of Work was submitted to the BLM (Bureau of Land Management) for approval. Permission was granted to proceed with Remedial Activity with exception that the liner not be installed. The BLM concluded that due to high pressure lines seated at 4.5 ft. bgs., and outstanding permits issued for additional lines to be installed that it would not be practicable or safe to install a liner. A copy of BLM correspondence can be referenced in [Appendix VI](#).

On June 02, through June 12, 2023 respectively, BDS personnel and equipment had completed excavation of the impacted area. The NMOCD was notified of a 48-hour confirmation sampling event. Utilizing field titration data to guide the excavation, the impacted area was excavated from depths of 2 ft. bgs. to 4 ft bgs. Confirmation samples were taken on a 5-pont composite basis every 200 sq. ft. All soil was properly contained, preserved, and transported to Hall Laboratories for analysis of Chloride, TPH and BTEX. The results are tabled below. A full laboratory report can be referenced in [Table V](#).

Table III Confirmation:

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	GRO + DRO + MRO combined = 100 mg/kg			100 mg/kg	10,000 mg/kg
S-1A	6/2/2023	4'	NT	NT	NT	NT	NT	0	660
S-2A	6/2/2023	4'	NT	NT	NT	NT	NT	0	1300
S-3A	6/2/2023	2'	NT	NT	NT	NT	NT	0	170
S-4A	6/2/2023	4'	NT	NT	NT	NT	NT	0	1500
S-5A	6/2/2023	2'	NT	NT	NT	NT	NT	0	1200
S-6A	6/2/2023	2'	NT	NT	NT	NT	NT	0	710
S-7A	6/2/2023	2'	NT	NT	NT	NT	NT	0	610
S-8A	6/2/2023	2'	NT	NT	NT	NT	NT	0	710
S-9A	6/12/2023	2'	ND	ND	ND	19	ND	19	69
S-10A	6/12/2023	2'	ND	ND	ND	20	ND	20	ND
S-11A	6/12/2023	2'	ND	ND	ND	12	ND	12	ND
S-12A	6/12/2023	2'	ND	ND	ND	12	ND	12	ND
S-13A	6/12/2023	2'	ND	ND	ND	ND	ND	0	80
S-14A	6/12/2023	2'	ND	ND	ND	ND	ND	0	120
S-15A	6/12/2023	2'	ND	ND	ND	ND	ND	0	ND
S-16A	6/12/2023	2'	ND	ND	ND	ND	ND	0	ND
S-17A	6/12/2023	4'	ND	ND	ND	ND	ND	0	290
S-18A	6/12/2023	4'	ND	ND	ND	ND	ND	0	260
S-19A	6/12/2023	4'	ND	ND	ND	ND	ND	0	440
S-20A	6/12/2023	4'	ND	ND	ND	ND	ND	0	250
S-21A	6/12/2023	4'	ND	ND	ND	ND	ND	0	270
Continued									

Qwik Pipe

August 15, 2023

S-22A	6/12/2023	4'	ND	ND	ND	ND	ND	0	260
S-23A	6/12/2023	4'	ND	ND	ND	ND	ND	0	270
S-24A	6/12/2023	4'	ND	ND	ND	ND	ND	0	200
S-25A	6/12/2023	4'	ND	ND	ND	ND	ND	0	210
S-26A	6/12/2023	4'	ND	ND	ND	ND	ND	0	290
S-27A	6/12/2023	4'	ND	ND	ND	ND	ND	0	380
S-28A	6/12/2023	4'	ND	ND	ND	ND	ND	0	420
S-29A	6/12/2023	4'	ND	ND	ND	ND	ND	0	370
S-30A	6/12/2023	4'	ND	ND	ND	ND	ND	0	820
SW-1	6/2/2023		NT	NT	NT	NT	NT	0	590
SW-2	6/2/2023		NT	NT	NT	NT	NT	0	160
SW-3	6/2/2023		NT	NT	NT	NT	NT	0	ND
SW-4	6/2/2023		NT	NT	NT	NT	NT	0	ND
SW-5	6/2/2023		NT	NT	NT	NT	NT	0	280
SW-6	6/2/2023		NT	NT	NT	NT	NT	0	ND
NT = Analyte Not Tested, ND = Analyte Not Detected, SW = Sidewall Sample									

Qwik Pipe
August 15, 2023

On July 14, 2023 Exxon Mobile personnel requested that additional confirmation sampling be conducted of the horizontal extent for the impacted area as it was originally mapped. It is believed that the horizontal extent of impact to surface area was minimized due to the immediate dispatch of a hydrovac and removal of surface fluids.

On August 07, 2023 BFD personnel returned to the site in order to collect the additional background soil samples as per the request of Exxon Mobile personnel. Three (3) additional samples were taken and labeled to coordinate with the GPS coordinates requested. All samples were properly grabbed, contained, and preserved for transport to Hall Laboratories. The soil samples were analyzed for Chloride, TPH, and BTEX. The results are tabled below for ease of reference. The complete laboratory report can be viewed in [Appendix V](#).

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	GRO + DRO + MRO combined = 100 mg/kg			2,500 mg/kg	10,000 mg/kg
S 528A	8/7/2023	0-6"	ND	ND	ND	ND	ND	0	ND
S 522A	8/7/2023	0-6"	ND	ND	ND	ND	ND	0	ND
S 520A	8/7/2023	0-6"	ND	ND	ND	ND	ND	0	ND
A = Confirmation Sample, ND = Analyte Not Detected									

Scope of Work

- The area of S-1, S-2 and S-4 were excavated to 4 feet (bgs). Composite soil samples were taken from bottom of the excavation to confirm chloride levels being left in place; horizontal sidewall samples were retrieved to confirm the achievement of clean up criteria in accordance with NMOCD Table I standards. BLM declined permission for liner installation due to future permits.
- The area of S-3 was excavated to a depth of 2 feet.
- The vicinity of S-4 was excavated to 4 feet (bgs). Soil samples were taken to show chloride levels left in place at the depth of 4 foot (bgs) and horizontal sidewall samples were taken accordance with NMOCD Table I standards.

On May 29, 2023 BDS equipment, and personnel were mobilized to the site. In accordance with BLM permission: the area of S-3 has been excavated to a depth of 2 ft. bgs. The remaining impacted area, in accordance with BLM instruction has been excavated to 4 ft. bgs. The impacted area has been excavated to the horizontal extent that sidewalls have analyte levels that are "non-detect". The clean stockpiled soil has been field titrated and all of the stockpiles are clean.

Qwik Pipe
August 15, 2023

BDS Enterprises is respectfully requesting permission to backfill the excavation due to safety concerns, followed by seeding in accordance with B LM guidelines. That furthermore, the regulatory file with regards to this incident be closed.

Appendix I	C-141 Spill Notification
Appendix II	Site Maps
Appendix III	Groundwater Data, Soil Survey, Wetlands Map
Appendix IV	Photographic Documentation
Appendix V	Laboratory Data
Appendix VI	Correspondence BLM, and NMOCD



Appendix I

NMOCD

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2304148392
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Garrett Green	Contact Telephone 575-200-0729
Contact email garrett.green@exxonmobil.com	Incident # (assigned by OCD)
Contact mailing address 3104 E. Greene Street, Carlsbad, New Mexico, 88220	

Location of Release Source

Latitude 32.20566 Longitude -103.79570
(NAD 83 in decimal degrees to 5 decimal places)

Site Name ROW 2	Site Type Pipeline
Date Release Discovered 01/28/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	20	24S	31E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name:)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 144.49	Volume Recovered (bbls) 60.00
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)


Cause of Release
Water transfer company failed to open a valve which caused a failure in the lay flat line, releasing fluids to soil. A third-party contractor has been retained for remediation purposes.

Incident ID	NAPP2304148392
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? A release greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Garrett Green to ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRDHarimon, Jocelyn, EMNRD on 1/29/2023 via email.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: <u>Garrett Green</u>	Title: <u>SSHE Coordinator</u>
Signature: <u></u>	Date: <u>02/10/2023</u>
email: <u>garrett.green@exxonmobil.com</u>	Telephone: <u>575-200-0729</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>02/10/2023</u>

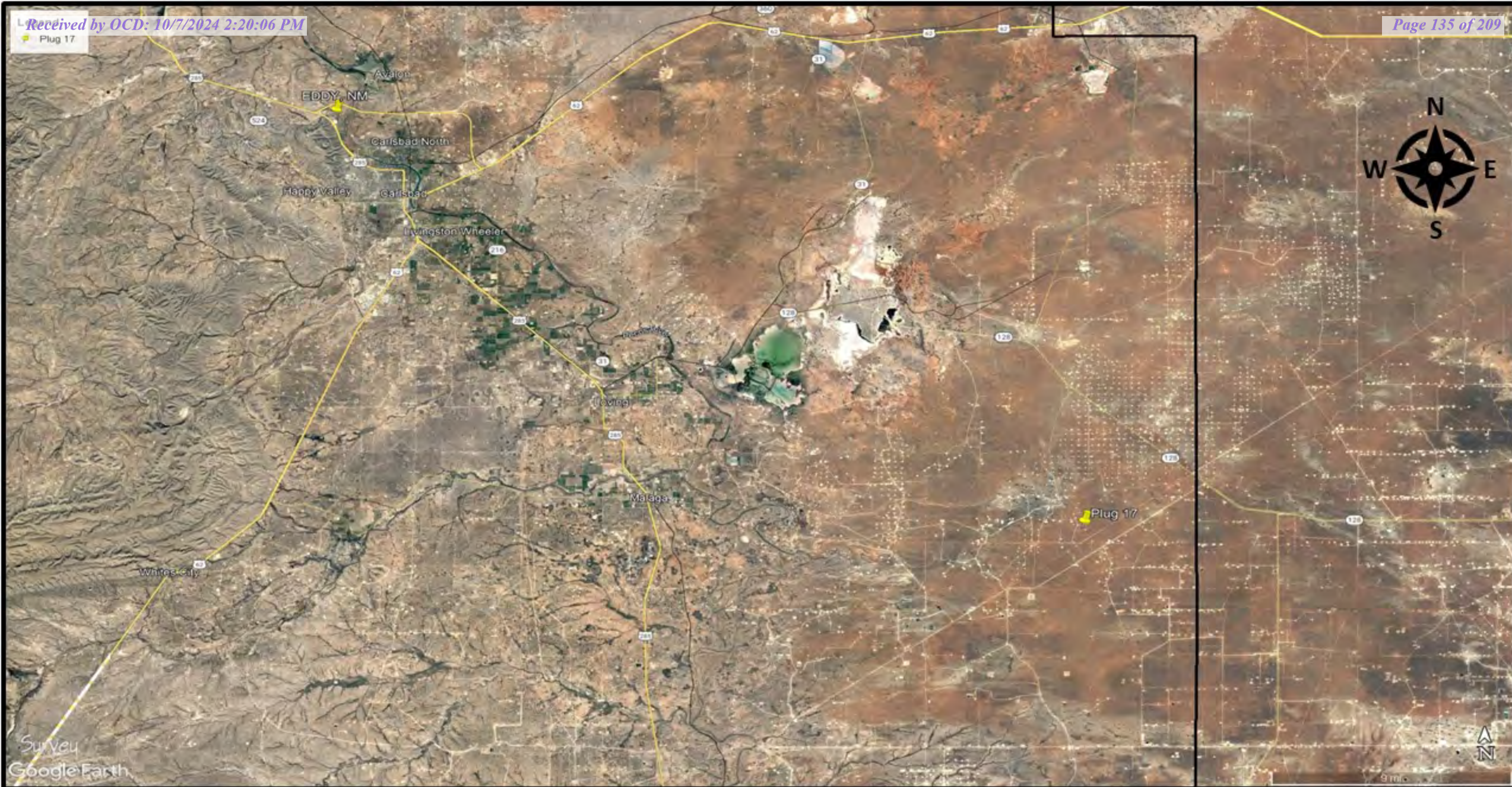
Location:	ROW 2 Pipeline	
Spill Date:	1/28/2023	
Area 1		
Approximate Area =	18976.00	sq. ft.
Average Saturation (or depth) of spill =	2.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	144.49	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	144.49	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	60.00	bbls



Appendix II

Site Maps

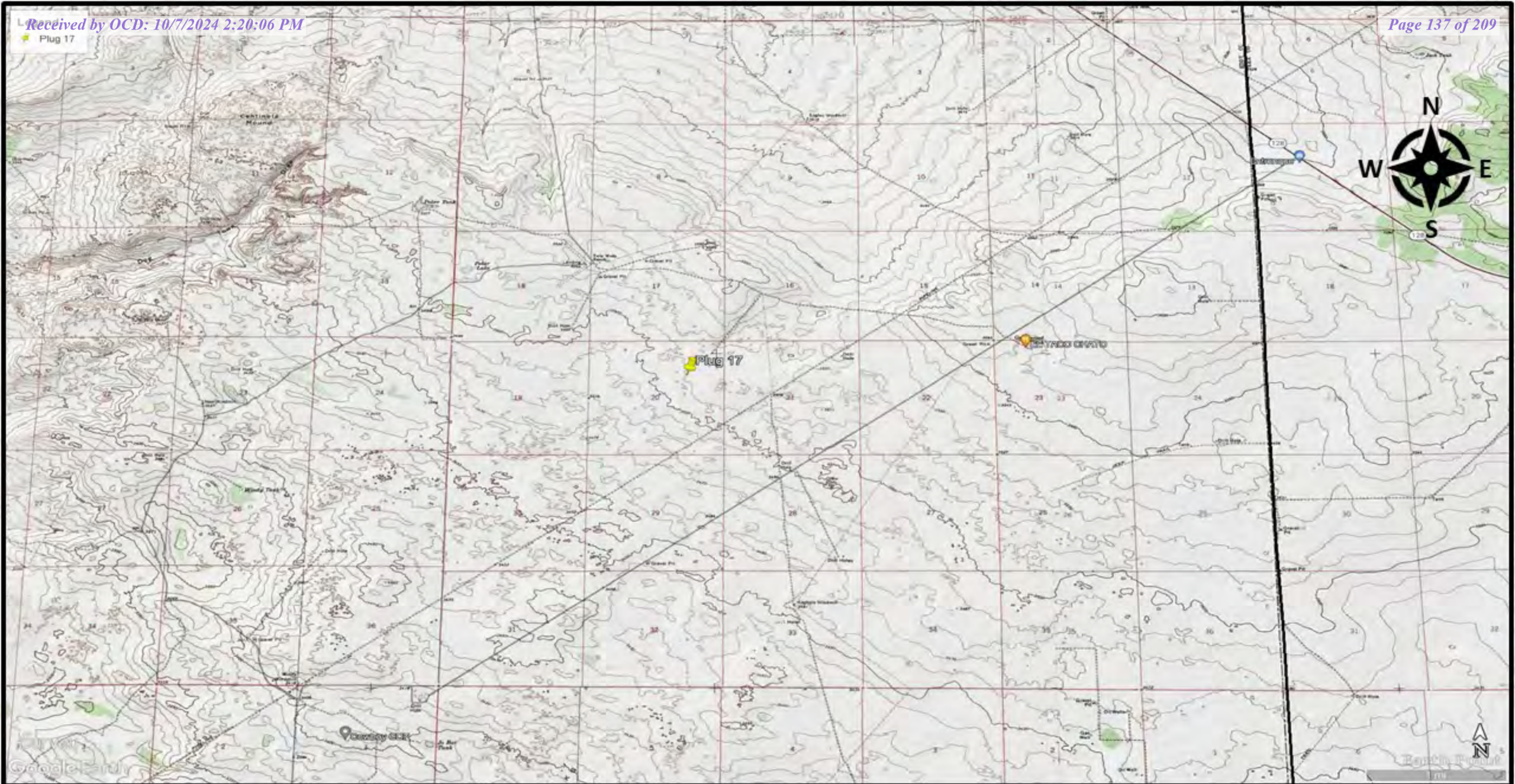
Plug 17



Plug 17



Survey
Google Earth



Legend

- Sample Position
- Spill Area



- Impacted Area
- Plug 17
- Sample Position



Plug 17

BH-2

BH-4

Survey
Google Earth



100 ft

- 2 Foot
- 4 Foot
- Sample Position



Additional
Background Samples





Appendix III

Groundwater Data, Soil Survey, & Wetlands Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)



(R=POD has been
replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 2	Q 1	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 04499 POD1		CUB	ED	3	4	2	20	24S	31E		613719	3563732		333	111	
C 04508 POD1		CUB	ED	4	4	3	15	24S	31E		616298	3564493		2919	110	
Average Depth to Water: --																
Minimum Depth: --																
Maximum Depth: --																

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 613437

Northing (Y): 3563910.32


Radius: 3000

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)								
		(quarters are smallest to largest)							(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	
NA	C 04499 POD1	3	4	2	20	24S	31E	613719	3563732	
<hr/>										
Driller License: 1249		Driller Company:				ATKINS ENGINEERING ASSOC. INC.				
Driller Name:		ATKINS, JACKIE D.UELENER								
Drill Start Date: 12/30/2020		Drill Finish Date:				12/30/2020		Plug Date:		01/19/2021
Log File Date: 01/27/2021		PCW Rev Date:				Source:				
Pump Type:		Pipe Discharge Size:				Estimated Yield:				
Casing Size:		Depth Well:				111 feet		Depth Water:		
<hr/>										

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



United States
Department of
Agriculture

NRCS

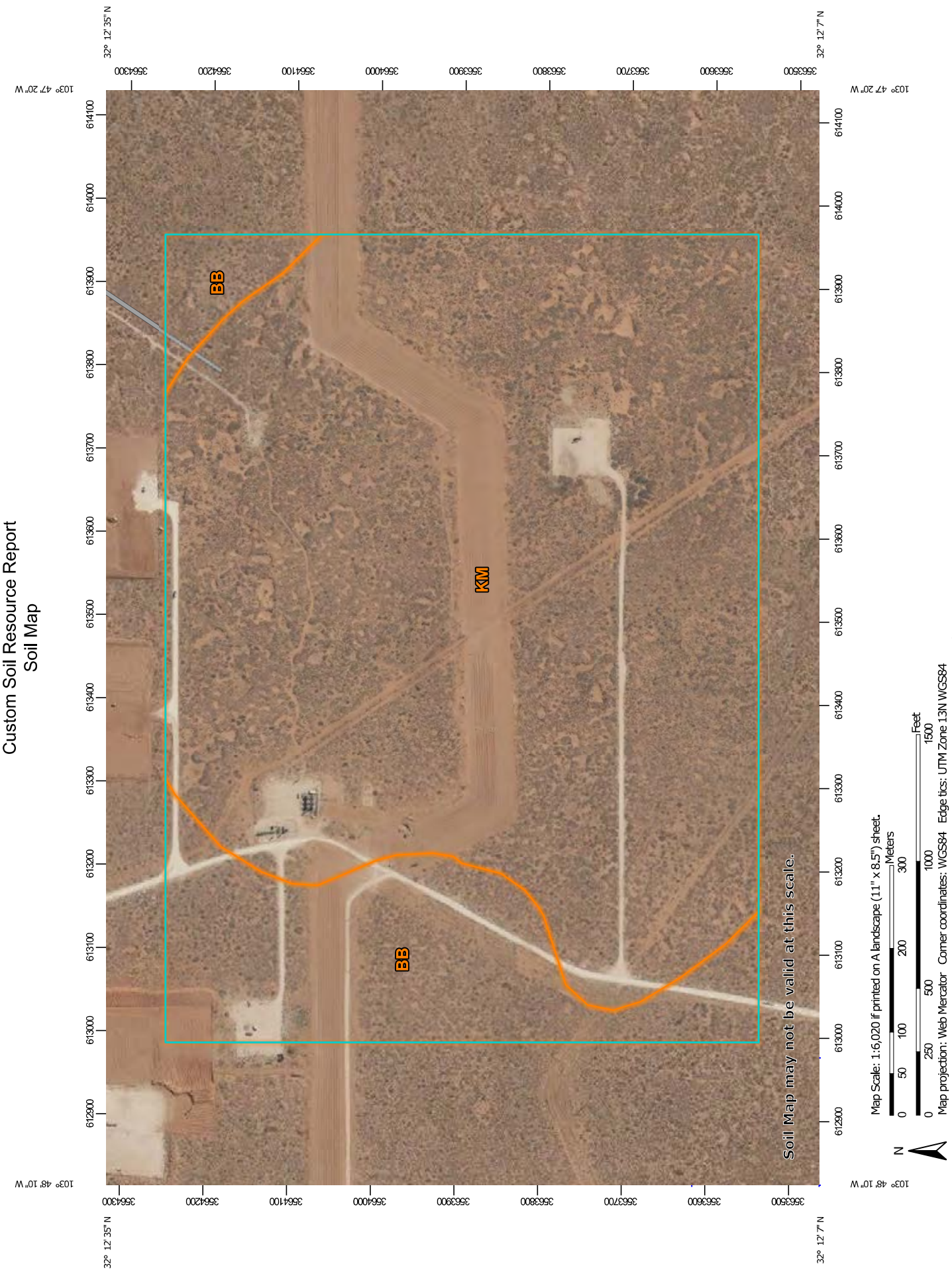
Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Eddy Area, New Mexico



February 1, 2023



Custom Soil Resource Report
Soil Map

Soil Map may not be valid at this scale.

Custom Soil Resource Report

Eddy Area, New Mexico**BB—Berino complex, 0 to 3 percent slopes, eroded****Map Unit Setting**

National map unit symbol: 1w43
Elevation: 2,000 to 5,700 feet
Mean annual precipitation: 5 to 15 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent
Pajarito and similar soils: 25 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino**Setting**

Landform: Plains, fan piedmonts
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 58 inches: sandy clay loam
H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Custom Soil Resource Report

Description of Pajarito**Setting**

Landform: Dunes, plains, interdunes
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand
H2 - 9 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components**Pajarito**

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 4 percent
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Kermit

Percent of map unit: 3 percent
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Custom Soil Resource Report

KM—Kermit-Berino fine sands, 0 to 3 percent slopes**Map Unit Setting**

National map unit symbol: 1w4q
Elevation: 3,100 to 4,200 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent
Berino and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit**Setting**

Landform: Plains, alluvial fans
Landform position (three-dimensional): Talf, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand
H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Custom Soil Resource Report

Description of Berino**Setting**

Landform: Plains, fan piedmonts
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 50 inches: fine sandy loam
H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components**Active dune land**

Percent of map unit: 15 percent
Hydric soil rating: No

National Flood Hazard Layer FIRMette



Received by OCD: 10/7/2024 2:20:06 PM

13°48'6"W 32°12'37"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, AE, AH, VE, AP
- With BFE or Depth
Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Flood Risk due to Levee. See Notes.
- Area with Flood Risk due to Levee

OTHER AREAS

- Area of Minimal Flood Hazard
- Effective LOMRs
- Area of Undetermined Flood Hazard
- Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall

OTHER FEATURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/1/2023 at 5:37 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Appendix IV

Photographic Documentation



Qwik Pipe
Plug 17



Impacted area at time of release.



Impacted area at time of release.



Aerial of Impacted area.



Aerial of Impacted area.



Qwik Pipe
Plug 17



Hydro-vac to expose lines



Hydro-vac to expose lines



Aerial of excavation



Aerial of excavation.



Appendix V

Laboratory Data



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 24, 2023

Rebecca Pons
BDS Enterprises
1705 E Greene St
Carlsbad, NM 88220
TEL: (575) 441-0980
FAX:

RE: Plug 17

OrderNo.: 2303844

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 16 sample(s) on 3/16/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S-1 0-1'

Project: Plug 17

Collection Date: 3/14/2023 10:00:00 AM

Lab ID: 2303844-001

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/20/2023 7:13:26 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/20/2023 7:13:26 PM
Surr: DNOP	106	69-147		%Rec	1	3/20/2023 7:13:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2023 6:14:11 AM
Surr: BFB	96.7	37.7-212		%Rec	1	3/18/2023 6:14:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/18/2023 6:14:11 AM
Toluene	ND	0.048		mg/Kg	1	3/18/2023 6:14:11 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2023 6:14:11 AM
Xylenes, Total	ND	0.095		mg/Kg	1	3/18/2023 6:14:11 AM
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	3/18/2023 6:14:11 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2800	150		mg/Kg	50	3/20/2023 5:21:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S-1 2'

Project: Plug 17

Collection Date: 3/14/2023 10:03:00 AM

Lab ID: 2303844-002

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/20/2023 7:37:35 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/20/2023 7:37:35 PM
Surr: DNOP	105	69-147		%Rec	1	3/20/2023 7:37:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2023 6:37:34 AM
Surr: BFB	97.3	37.7-212		%Rec	1	3/18/2023 6:37:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/18/2023 6:37:34 AM
Toluene	ND	0.048		mg/Kg	1	3/18/2023 6:37:34 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2023 6:37:34 AM
Xylenes, Total	ND	0.095		mg/Kg	1	3/18/2023 6:37:34 AM
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	3/18/2023 6:37:34 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1700	60		mg/Kg	20	3/18/2023 12:15:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S-1 3'

Project: Plug 17

Collection Date: 3/14/2023 10:06:00 AM

Lab ID: 2303844-003

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/20/2023 8:01:51 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/20/2023 8:01:51 PM
Surr: DNOP	108	69-147		%Rec	1	3/20/2023 8:01:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/18/2023 7:00:55 AM
Surr: BFB	97.4	37.7-212		%Rec	1	3/18/2023 7:00:55 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/18/2023 7:00:55 AM
Toluene	ND	0.046		mg/Kg	1	3/18/2023 7:00:55 AM
Ethylbenzene	ND	0.046		mg/Kg	1	3/18/2023 7:00:55 AM
Xylenes, Total	ND	0.092		mg/Kg	1	3/18/2023 7:00:55 AM
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	3/18/2023 7:00:55 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1300	60		mg/Kg	20	3/18/2023 12:28:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S-1 4'

Project: Plug 17

Collection Date: 3/14/2023 10:09:00 AM

Lab ID: 2303844-004

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/20/2023 8:25:54 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/20/2023 8:25:54 PM
Surr: DNOP	97.9	69-147		%Rec	1	3/20/2023 8:25:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2023 7:24:22 AM
Surr: BFB	95.2	37.7-212		%Rec	1	3/18/2023 7:24:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/18/2023 7:24:22 AM
Toluene	ND	0.048		mg/Kg	1	3/18/2023 7:24:22 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2023 7:24:22 AM
Xylenes, Total	ND	0.097		mg/Kg	1	3/18/2023 7:24:22 AM
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	3/18/2023 7:24:22 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	330	60		mg/Kg	20	3/18/2023 12:40:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S-2 0-1'

Project: Plug 17

Collection Date: 3/14/2023 10:15:00 AM

Lab ID: 2303844-005

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/20/2023 8:50:11 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2023 8:50:11 PM
Surr: DNOP	99.7	69-147		%Rec	1	3/20/2023 8:50:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2023 7:47:55 AM
Surr: BFB	96.0	37.7-212		%Rec	1	3/18/2023 7:47:55 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/18/2023 7:47:55 AM
Toluene	ND	0.048		mg/Kg	1	3/18/2023 7:47:55 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2023 7:47:55 AM
Xylenes, Total	ND	0.097		mg/Kg	1	3/18/2023 7:47:55 AM
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	3/18/2023 7:47:55 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	4100	150		mg/Kg	50	3/20/2023 5:33:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S-2 2' R

Project: Plug 17

Collection Date: 3/14/2023 10:18:00 AM

Lab ID: 2303844-006

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/20/2023 9:14:17 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/20/2023 9:14:17 PM
Surr: DNOP	101	69-147		%Rec	1	3/20/2023 9:14:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/18/2023 8:11:25 AM
Surr: BFB	95.7	37.7-212		%Rec	1	3/18/2023 8:11:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/18/2023 8:11:25 AM
Toluene	ND	0.050		mg/Kg	1	3/18/2023 8:11:25 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/18/2023 8:11:25 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/18/2023 8:11:25 AM
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	3/18/2023 8:11:25 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	5300	150		mg/Kg	50	3/21/2023 10:09:59 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S-3 0-1'

Project: Plug 17

Collection Date: 3/14/2023 10:25:00 AM

Lab ID: 2303844-007

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/20/2023 9:38:26 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/20/2023 9:38:26 PM
Surr: DNOP	99.4	69-147		%Rec	1	3/20/2023 9:38:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/18/2023 8:34:53 AM
Surr: BFB	95.5	37.7-212		%Rec	1	3/18/2023 8:34:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/18/2023 8:34:53 AM
Toluene	ND	0.049		mg/Kg	1	3/18/2023 8:34:53 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/18/2023 8:34:53 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/18/2023 8:34:53 AM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	3/18/2023 8:34:53 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3700	150		mg/Kg	50	3/21/2023 10:22:20 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S-3 2'

Project: Plug 17

Collection Date: 3/14/2023 10:28:00 AM

Lab ID: 2303844-008

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/20/2023 10:02:40 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/20/2023 10:02:40 PM
Surr: DNOP	96.6	69-147		%Rec	1	3/20/2023 10:02:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/18/2023 8:58:20 AM
Surr: BFB	96.9	37.7-212		%Rec	1	3/18/2023 8:58:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/18/2023 8:58:20 AM
Toluene	ND	0.049		mg/Kg	1	3/18/2023 8:58:20 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/18/2023 8:58:20 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/18/2023 8:58:20 AM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	3/18/2023 8:58:20 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	380	60		mg/Kg	20	3/20/2023 10:54:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S-3 3' R

Project: Plug 17

Collection Date: 3/14/2023 10:31:00 AM

Lab ID: 2303844-009

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/21/2023 12:23:12 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/21/2023 12:23:12 PM
Surr: DNOP	92.8	69-147		%Rec	1	3/21/2023 12:23:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 1:02:06 PM
Surr: BFB	105	37.7-212		%Rec	1	3/20/2023 1:02:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/20/2023 1:02:06 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 1:02:06 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 1:02:06 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/20/2023 1:02:06 PM
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	3/20/2023 1:02:06 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/20/2023 11:07:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S-4 0-1'

Project: Plug 17

Collection Date: 3/14/2023 10:40:00 AM

Lab ID: 2303844-010

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/21/2023 12:33:42 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/21/2023 12:33:42 PM
Surr: DNOP	92.8	69-147		%Rec	1	3/21/2023 12:33:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/20/2023 1:25:53 PM
Surr: BFB	103	37.7-212		%Rec	1	3/20/2023 1:25:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/20/2023 1:25:53 PM
Toluene	ND	0.050		mg/Kg	1	3/20/2023 1:25:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/20/2023 1:25:53 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/20/2023 1:25:53 PM
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	3/20/2023 1:25:53 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2500	150		mg/Kg	50	3/21/2023 10:34:41 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S-4 2'

Project: Plug 17

Collection Date: 3/14/2023 10:43:00 AM

Lab ID: 2303844-011

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/21/2023 12:44:14 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/21/2023 12:44:14 PM
Surr: DNOP	94.4	69-147		%Rec	1	3/21/2023 12:44:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 1:49:45 PM
Surr: BFB	103	37.7-212		%Rec	1	3/20/2023 1:49:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/20/2023 1:49:45 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 1:49:45 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 1:49:45 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/20/2023 1:49:45 PM
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	3/20/2023 1:49:45 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3500	150		mg/Kg	50	3/21/2023 10:47:02 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S-4 3' R

Project: Plug 17

Collection Date: 3/14/2023 10:46:00 AM

Lab ID: 2303844-012

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/21/2023 12:54:47 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/21/2023 12:54:47 PM
Surr: DNOP	95.9	69-147		%Rec	1	3/21/2023 12:54:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 3:49:15 PM
Surr: BFB	104	37.7-212		%Rec	1	3/20/2023 3:49:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/20/2023 3:49:15 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 3:49:15 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 3:49:15 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/20/2023 3:49:15 PM
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	3/20/2023 3:49:15 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3000	150		mg/Kg	50	3/21/2023 10:59:23 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: BG-1 0'

Project: Plug 17

Collection Date: 3/14/2023 10:50:00 AM

Lab ID: 2303844-013

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/21/2023 1:05:20 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/21/2023 1:05:20 PM
Surr: DNOP	99.1	69-147		%Rec	1	3/21/2023 1:05:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 4:13:09 PM
Surr: BFB	105	37.7-212		%Rec	1	3/20/2023 4:13:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/20/2023 4:13:09 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 4:13:09 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 4:13:09 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/20/2023 4:13:09 PM
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	3/20/2023 4:13:09 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/20/2023 11:56:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: BG-2 0'

Project: Plug 17

Collection Date: 3/14/2023 10:55:00 AM

Lab ID: 2303844-014

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/21/2023 1:15:54 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/21/2023 1:15:54 PM
Surr: DNOP	101	69-147		%Rec	1	3/21/2023 1:15:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/20/2023 5:24:28 PM
Surr: BFB	104	37.7-212		%Rec	1	3/20/2023 5:24:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/20/2023 5:24:28 PM
Toluene	ND	0.048		mg/Kg	1	3/20/2023 5:24:28 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/20/2023 5:24:28 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/20/2023 5:24:28 PM
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	3/20/2023 5:24:28 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	360	60		mg/Kg	20	3/21/2023 12:08:43 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: BG-3 0'

Project: Plug 17

Collection Date: 3/14/2023 11:00:00 AM

Lab ID: 2303844-015

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/21/2023 1:26:31 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/21/2023 1:26:31 PM
Surr: DNOP	98.4	69-147		%Rec	1	3/21/2023 1:26:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/20/2023 5:48:16 PM
Surr: BFB	116	37.7-212		%Rec	1	3/20/2023 5:48:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/20/2023 5:48:16 PM
Toluene	ND	0.047		mg/Kg	1	3/20/2023 5:48:16 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/20/2023 5:48:16 PM
Xylenes, Total	ND	0.093		mg/Kg	1	3/20/2023 5:48:16 PM
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	3/20/2023 5:48:16 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	180	60		mg/Kg	20	3/21/2023 12:45:45 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: BG-4 0'

Project: Plug 17

Collection Date: 3/14/2023 11:05:00 AM

Lab ID: 2303844-016

Matrix: SOIL

Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/21/2023 1:37:10 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/21/2023 1:37:10 PM
Surr: DNOP	103	69-147		%Rec	1	3/21/2023 1:37:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/20/2023 6:12:00 PM
Surr: BFB	103	37.7-212		%Rec	1	3/20/2023 6:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/20/2023 6:12:00 PM
Toluene	ND	0.048		mg/Kg	1	3/20/2023 6:12:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/20/2023 6:12:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/20/2023 6:12:00 PM
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	3/20/2023 6:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	270	60		mg/Kg	20	3/21/2023 12:58:05 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303844

24-Mar-23

Client: BDS Enterprises

Project: Plug 17

Sample ID: MB-73789	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73789	RunNo: 95382								
Prep Date: 3/18/2023	Analysis Date: 3/18/2023	SeqNo: 3450256	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73789	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73789	RunNo: 95382								
Prep Date: 3/18/2023	Analysis Date: 3/18/2023	SeqNo: 3450257	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Sample ID: MB-73818	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73818	RunNo: 95410								
Prep Date: 3/20/2023	Analysis Date: 3/20/2023	SeqNo: 3451749	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73818	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73818	RunNo: 95410								
Prep Date: 3/20/2023	Analysis Date: 3/20/2023	SeqNo: 3451750	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303844

24-Mar-23

Client: BDS Enterprises

Project: Plug 17

Sample ID: MB-73780	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73780	RunNo: 95386								
Prep Date: 3/17/2023	Analysis Date: 3/20/2023	SeqNo: 3450480	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.6	69	147			

Sample ID: LCS-73780	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73780	RunNo: 95386								
Prep Date: 3/17/2023	Analysis Date: 3/20/2023	SeqNo: 3450495	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	47	10	50.00	0	93.0	61.9	130			
Surr: DNOP	5.1		5.000		102	69	147			

Sample ID: MB-73819	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73819	RunNo: 95415								
Prep Date: 3/20/2023	Analysis Date: 3/21/2023	SeqNo: 3451853	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.0	69	147			

Sample ID: LCS-73819	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73819	RunNo: 95415								
Prep Date: 3/20/2023	Analysis Date: 3/21/2023	SeqNo: 3451856	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	50	10	50.00	0	99.8	61.9	130			
Surr: DNOP	5.0		5.000		99.7	69	147			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303844

24-Mar-23

Client: BDS Enterprises

Project: Plug 17

Sample ID: ics-73767	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 73767			RunNo: 95348						
Prep Date: 3/16/2023	Analysis Date: 3/17/2023			SeqNo: 3449933		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.6	70	130			
Surr: BFB	1800		1000		179	37.7	212			

Sample ID: mb-73767	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 73767			RunNo: 95348						
Prep Date: 3/16/2023	Analysis Date: 3/17/2023			SeqNo: 3449934		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.2	37.7	212			

Sample ID: ics-73777	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 73777			RunNo: 95394						
Prep Date: 3/17/2023	Analysis Date: 3/20/2023			SeqNo: 3451025		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.9	70	130			
Surr: BFB	1900		1000		189	37.7	212			

Sample ID: mb-73777	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 73777			RunNo: 95394						
Prep Date: 3/17/2023	Analysis Date: 3/20/2023			SeqNo: 3451026		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303844

24-Mar-23

Client: BDS Enterprises

Project: Plug 17

Sample ID: LCS-73767	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73767		RunNo: 95348							
Prep Date: 3/16/2023	Analysis Date: 3/17/2023		SeqNo: 3449967		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.2	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.0	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	70	130			

Sample ID: mb-73767	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 73767		RunNo: 95348							
Prep Date: 3/16/2023	Analysis Date: 3/17/2023		SeqNo: 3449968		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	70	130			

Sample ID: LCS-73777	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73777		RunNo: 95394							
Prep Date: 3/17/2023	Analysis Date: 3/20/2023		SeqNo: 3451035		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	80	120			
Toluene	0.90	0.050	1.000	0	90.5	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.9	70	130			

Sample ID: mb-73777	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 73777		RunNo: 95394							
Prep Date: 3/17/2023	Analysis Date: 3/20/2023		SeqNo: 3451036		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BDS Enterprises

Work Order Number: 2303844

RcptNo: 1

Received By: Desiree Dominguez 3/16/2023 8:00:00 AM

Completed By: Sean Livingston 3/16/2023 9:15:20 AM

Reviewed By: DAD 3/16/23

DD
Sean Livingston

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *JA 3-16-23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Not Present	Morty		



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 15, 2023

Rebecca Pons
BDS Enterprises
1705 E Greene St
Carlsbad, NM 88220
TEL: (575) 441-0980
FAX:

RE: Plug 17

OrderNo.: 2305199

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/4/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Date Reported: **5/15/2023**

Received Date: 5/4/2023 7:20:00 AM

Analyst: **SNS**

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2305199

15-May-23

Client: BDS Enterprises

Project: Plug 17

Sample ID: MB-74793	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 74793	RunNo: 96564
Prep Date: 5/5/2023	Analysis Date: 5/5/2023	SeqNo: 3501011 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-74793	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 74793	RunNo: 96564
Prep Date: 5/5/2023	Analysis Date: 5/5/2023	SeqNo: 3501012 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.2 90 110

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

Sample Log-In Check List

Client Name: BDS Enterprises

Work Order Number: 2305199

RcptNo: 1

Received By: **Tracy Casarrubias** 5/4/2023 7:20:00 AM

Completed By: **Tracy Casarrubias** 5/4/2023 8:01:47 AM

Reviewed By: Jn 5/4/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐

8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved bottles checked for pH: 1

(<2 or >12 unless noted)

Adjusted?

Checked by:

MA 5/4/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

Mailing address and phone number are missing on COC- TMC 5/4/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.1	Good	Yes	Yogi		

Chain-of-Custody Record

Client: BDS Enterprises

Mailing Address:

Phone #:

email or Fax#: rebecca@bds oilfield.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 5-Day

Project Name:

Plug 17

Project #:

Project Manager:

Rebecca PonsSampler: J. Carras, A. ParraOn Ice: ☒ Yes ☐ No yes

of Coolers:

Cooler Temp (including CF): 5.0 + 0.1 = 5.1 (°C)

Date Time Matrix Sample Name

5-2-23 9:30 Soil BH-2 4'5-2-23 9:30 Soil BH-2 6'R5-2-23 10:55 Soil BH-4 5'R

Container Type and #

5ar/15ar/15ar/1

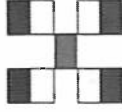
Preservative Type

Ice/CoolIce/CoolIce/Cool

HEAL No.

2305199001002003Date: 5/3/23 Time: 1030Date: 5/3/23 Time: 1900Relinquished by: [Signature]Relinquished by: [Signature]Received by: [Signature]Received by: [Signature]Date: 5/3/23 Time: 1030Date: 5/4/23 Time: 7:20

Remarks:

Email Results
rebecca@bds oilfield.com
jamesc@bds oilfield.comHALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTX / 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)



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 15, 2023

Rebecca Pons
BDS Enterprises
1705 E Greene St
Carlsbad, NM 88220
TEL: (575) 441-0980
FAX:

RE: Plug 17

OrderNo.: 2308387

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/8/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

CLIENT: BDS Enterprises
Project: Plug 17
Lab ID: 2308387-001

Matrix: SOIL

Client Sample ID: S 528A
Collection Date: 8/7/2023 10:30:00 AM
Received Date: 8/8/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/10/2023 7:48:24 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2023 7:48:24 AM
Surr: DNOP	85.1	69-147		%Rec	1	8/10/2023 7:48:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/10/2023 6:16:35 AM
Surr: BFB	95.2	15-244		%Rec	1	8/10/2023 6:16:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	8/10/2023 6:16:35 AM
Toluene	ND	0.047		mg/Kg	1	8/10/2023 6:16:35 AM
Ethylbenzene	ND	0.047		mg/Kg	1	8/10/2023 6:16:35 AM
Xylenes, Total	ND	0.094		mg/Kg	1	8/10/2023 6:16:35 AM
Surr: 4-Bromofluorobenzene	107	39.1-146		%Rec	1	8/10/2023 6:16:35 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	8/10/2023 8:31:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2308387

Date Reported: 8/15/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S 522A

Project: Plug 17

Collection Date: 8/7/2023 10:35:00 AM

Lab ID: 2308387-002

Matrix: SOIL

Received Date: 8/8/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	8/10/2023 2:43:19 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/10/2023 2:43:19 PM
Surr: DNOP	116	69-147		%Rec	1	8/10/2023 2:43:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2023 6:40:07 AM
Surr: BFB	93.8	15-244		%Rec	1	8/10/2023 6:40:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	8/10/2023 6:40:07 AM
Toluene	ND	0.048		mg/Kg	1	8/10/2023 6:40:07 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2023 6:40:07 AM
Xylenes, Total	ND	0.096		mg/Kg	1	8/10/2023 6:40:07 AM
Surr: 4-Bromofluorobenzene	107	39.1-146		%Rec	1	8/10/2023 6:40:07 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	8/11/2023 1:41:43 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 2 of 8

Analytical Report

Lab Order 2308387

Date Reported: 8/15/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises

Client Sample ID: S 520A

Project: Plug 17

Collection Date: 8/7/2023 10:40:00 AM

Lab ID: 2308387-003

Matrix: SOIL

Received Date: 8/8/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/10/2023 2:54:07 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/10/2023 2:54:07 PM
Surr: DNOP	109	69-147		%Rec	1	8/10/2023 2:54:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2023 7:03:41 AM
Surr: BFB	90.1	15-244		%Rec	1	8/10/2023 7:03:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	8/10/2023 7:03:41 AM
Toluene	ND	0.048		mg/Kg	1	8/10/2023 7:03:41 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2023 7:03:41 AM
Xylenes, Total	ND	0.095		mg/Kg	1	8/10/2023 7:03:41 AM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	8/10/2023 7:03:41 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	59		mg/Kg	20	8/11/2023 1:54:08 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 3 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308387

15-Aug-23

Client: BDS Enterprises

Project: Plug 17

Sample ID: MB-76802		SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 76802			RunNo: 98905					
Prep Date: 8/10/2023		Analysis Date: 8/10/2023			SeqNo: 3603583		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76802		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 76802			RunNo: 98905					
Prep Date: 8/10/2023		Analysis Date: 8/10/2023			SeqNo: 3603584		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Sample ID: MB-76804		SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 76804			RunNo: 98905					
Prep Date: 8/10/2023		Analysis Date: 8/10/2023			SeqNo: 3603585		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76804		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 76804			RunNo: 98905					
Prep Date: 8/10/2023		Analysis Date: 8/10/2023			SeqNo: 3603586		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308387

15-Aug-23

Client: BDS Enterprises
Project: Plug 17

Sample ID: 2308387-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: S 528A	Batch ID: 76761	RunNo: 98859
Prep Date: 8/9/2023	Analysis Date: 8/10/2023	SeqNo: 3601545 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	52	9.9 49.36 0 105 54.2 135
Surr: DNOP	4.9	4.936 98.3 69 147

Sample ID: 2308387-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: S 528A	Batch ID: 76761	RunNo: 98859
Prep Date: 8/9/2023	Analysis Date: 8/10/2023	SeqNo: 3601546 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	51	9.8 48.83 0 104 54.2 135 2.38 29.2
Surr: DNOP	4.5	4.883 93.0 69 147 0 0

Sample ID: LCS-76761	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 76761	RunNo: 98859
Prep Date: 8/9/2023	Analysis Date: 8/10/2023	SeqNo: 3601553 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	48	10 50.00 0 96.5 61.9 130
Surr: DNOP	4.5	5.000 90.4 69 147

Sample ID: MB-76761	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 76761	RunNo: 98859
Prep Date: 8/9/2023	Analysis Date: 8/10/2023	SeqNo: 3601556 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND	10
Motor Oil Range Organics (MRO)	ND	50
Surr: DNOP	10	10.00 101 69 147

Sample ID: LCS-76771	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 76771	RunNo: 98859
Prep Date: 8/9/2023	Analysis Date: 8/10/2023	SeqNo: 3602161 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	54	10 50.00 0 107 61.9 130
Surr: DNOP	5.0	5.000 101 69 147

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308387
15-Aug-23

Client: BDS Enterprises
Project: Plug 17

Sample ID: MB-76771	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 76771	RunNo: 98859								
Prep Date: 8/9/2023	Analysis Date: 8/10/2023	SeqNo: 3602162		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		122	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308387

15-Aug-23

Client: BDS Enterprises

Project: Plug 17

Sample ID: lcs-76742	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 76742				RunNo: 98834					
Prep Date: 8/8/2023	Analysis Date: 8/9/2023				SeqNo: 3602041	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	83.4	70	130			
Surr: BFB	2000		1000		196	15	244			

Sample ID: mb-76742	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 76742				RunNo: 98834					
Prep Date: 8/8/2023	Analysis Date: 8/9/2023				SeqNo: 3602042	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.5	15	244			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308387
15-Aug-23

Client: BDS Enterprises
Project: Plug 17

Sample ID: LCS-76742		SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: 76742		RunNo: 98834						
Prep Date: 8/8/2023		Analysis Date: 8/9/2023		SeqNo: 3602074			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	70	130			
Toluene	1.0	0.050	1.000	0	104	70	130			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.1	0.10	3.000	0	105	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	39.1	146			

Sample ID: mb-76742		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 76742		RunNo: 98834						
Prep Date: 8/8/2023		Analysis Date: 8/9/2023		SeqNo: 3602075			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

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E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 8



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BDS Enterprises

Work Order Number: 2308387

RcptNo: 1

Received By: Steve McQuiston

8/7/2023 4:25:00 PM

Handwritten signature

Completed By: Tracy Casarrubias

8/8/2023 8:12:12 AM

Reviewed By: *7/8/8/23*

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *SCM 08/08/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Yes	Morty		



Appendix VI

Correspondence

jamesc@bdsoilfield.com

From: Taylor, Shelly J <sjtaylor@blm.gov>
Sent: Tuesday, May 23, 2023 12:56 PM
To: jamesc@bdsoilfield.com
Cc: 'BDS'
Subject: Re: [EXTERNAL] Plug 17

You are cleared to proceed with remedial activities.

Sincerely,

Shelly J Taylor

Environmental Protection Specialist
Realty - Compliance

Bureau of Land Management/Carlsbad Field Office
620 E. Greene St
Carlsbad, NM 88220
Direct 575.234.5706
Mobile 575.499.6831
sjtaylor@blm.gov

Spill/Release email: **BLM_NM_CFO_REALTY_SPILL@BLM.GOV**

PLEASE NOTE: I have a new email address: sjtaylor@blm.gov



From: jamesc@bdsoilfield.com <jamesc@bdsoilfield.com>
Sent: Friday, May 19, 2023 7:58 AM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Cc: 'BDS' <rebecca@bdsoilfield.com>
Subject: [EXTERNAL] Plug 17

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good Morning Shelly,

I have attached the work plan for the Plug 17. As per our conversation we are asking to take the excavation to 4 feet, in areas needing to go to this depth, and confirmation sample the bottom to show the amount of chlorides left in the ground and the sidewalls to show horizontal delineation.

Thank you,

jamesc@bdsoilfield.com

From: Taylor, Shelly J <sjtaylor@blm.gov>
Sent: Tuesday, May 23, 2023 12:57 PM
To: jamesc@bdsoilfield.com
Cc: 'BDS'
Subject: Re: [EXTERNAL] Plug 17

Yes... Since the initial sampling was ND you are cleared to proceed with chloride samples only.

Sincerely,

Shelly J Taylor

Environmental Protection Specialist
Realty - Compliance

Bureau of Land Management/Carlsbad Field Office
620 E. Greene St
Carlsbad, NM 88220
Direct 575.234.5706
Mobile 575.499.6831
sjtaylor@blm.gov

Spill/Release email: **BLM_NM_CFO_REALTY_SPILL@BLM.GOV**

PLEASE NOTE: I have a new email address: sjtaylor@blm.gov



From: jamesc@bdsoilfield.com <jamesc@bdsoilfield.com>
Sent: Friday, May 19, 2023 2:29 PM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Cc: 'BDS' <rebecca@bdsoilfield.com>
Subject: [EXTERNAL] Plug 17

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good Afternoon Shelly,

I was curious if on the Plug 17 we could just run chlorides on the labs since that was the only analyte of concern on the site. Please let us know if we can do that.

Thank you,

District I
1625 N. French Dr., Hobbs, NM 88240
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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 390489

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 390489
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2304148392
Incident Name	NAPP2304148392 ROW 2 PIPELINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ROW 2 PIPELINE
Date Release Discovered	01/28/2023
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: Human Error Valve Produced Water Released: 144 BBL Recovered: 60 BBL Lost: 84 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 390489

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	390489
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 10/07/2024
--	--

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QUESTIONS, Page 3

Action 390489

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	390489
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	368
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	03/14/2023
On what date will (or did) the final sampling or liner inspection occur	09/13/2024
On what date will (or was) the remediation complete(d)	09/13/2024
What is the estimated surface area (in square feet) that will be reclaimed	4048
What is the estimated volume (in cubic yards) that will be reclaimed	1370
What is the estimated surface area (in square feet) that will be remediated	4048
What is the estimated volume (in cubic yards) that will be remediated	1370

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 390489

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	390489
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 10/07/2024
<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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Santa Fe, NM 87505

QUESTIONS, Page 5

Action 390489

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	390489
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

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

District I

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District II

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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.
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Action 390489

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	390489
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	382655
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/13/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4048
What was the total volume (cubic yards) remediated	1370
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	4048
What was the total volume (in cubic yards) reclaimed	1370
Summarize any additional remediation activities not included by answers (above)	"Additional remediation activities were conducted at the Site to address the denied Closure Request submitted for the January 28,2023, release of produced water. Laboratory analytical results for all confirmation soil samples indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the most stringent Table 1 Closure Criteria in the top four feet. Based on the soil sample analytical results, no further remediation was required. XTO backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. The disturbed area on the ROW will be re-seeded with an approved BLM seed mixture within 90 days or the next recommended BLM planting season. Excavation of impacted soil from the top four feet has mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2304148392. "

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 10/07/2024
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Action 390489

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 390489
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 390489

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 390489
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	11/8/2024