ENSOLUM

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 absense 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.



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 activies. 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.



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XTO Energy, Inc Closure Request Addendum ROW 2 Pipeline **ENSOLUM**

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Sincerely, Ensolum, LLC

Tracy Hittart

Tracy Hillard Project Engineer

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 1Soil 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 Closure Request





FIGURES

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XTO Energy, Inc ROW 2 Pipeline Incident Number: nAPP2304148392 Unit G, Sec 20, T24S, R31E Eddy County, New Mexico

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Environmental, Engineering and Hydrogeologic Consultants



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Legend

- **Confirmation Sample Compliant** with Closure Criteria
- Confirmation Sidewall Sample Compliant with Closure Criteria
- Point of Release
- R Riser
- RW **Riser-Water**
- 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



Incident Number: nAPP2304148392



TABLES

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	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 C	losure Criteria (l	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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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 C	losure 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		
		_		F	loor Soil Samp	les				_		
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		

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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	
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	
				Sic	lewall Soil Sam	ples					
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

z	OSE POD NO POD1 (M)		WELL TAG ID NO. n/a			OSE FILE NO() C-4499	S).			
CATIO	WELL OWN	ER NAME(S)						PHONE (OPTI	ONAL)			
LLOC	XTO Ener							CITY		STATE		ZIP
WEL	6401 Holid	lay Hill D	r.					Midland		ТХ	79707	
GENERAL AND WELL LOCATION	WELL LOCATIO	ON LA	DI	EGREES 32°	MINUTES 12'	SECO		• ACCURACY	REQUIRED: ONE TEN	TH OF A SE	COND	
NERA	(FROM GF	2S)		-103°	47'	36.	29" W	* DATUM REQUIRED: WGS 84				
1. GE	Description relating well location to street address and common landmarks – plss (section, township, range) where available → SE NE Sec. 20 T24S R31E											
	LICENSE NO 124		NAME OF LICENSED		lackie D. Atkins				NAME OF WELL DRI Atkins Eng		MPANY Associates, I	nc.
	DRILLING STARTED DRILLING ENDED DEPTH OF COMPLETED WELL (FT) BORE H 12/30/2020 12/30/2020 temporary well material BORE H							le depth (ft) 110	DEPTH WATER FIRS	ST ENCOUI n/a	NTERED (FT)	
z	COMPLETED WELL IS: ARTESIAN DRY HOLE SHALLOW (UNCONFINED)								STATIC WATER LEV	/EL IN COM n/a	APLETED WE	LL (FT)
ATIO	Orilling Fluid: Image: Air much additives - specify:											
ORM	DRILLING METHOD: CABLE TOOL OTHE								Hollo	w Stem	Auger	1
2. DRILLING & CASING INFORMATION	DEPTH FROM	(feet bgl) TO	BORE HOLE DIAM (inches)	DIAM (include each casing string and CON				ASING NECTION TYPE	CASING INSIDE DIAM. (inches)	THIC	NG WALL CKNESS Inches)	SLOT SIZE (inches)
¢ CAS	0	110	±8.5	_	note sections of screen) (add coupli Boring- HSA			ling diameter)				
P Su												
RILL												
2. D												
<u> </u>		(feet bgl)	BORE HOLE	<u> </u>	ST ANNULAR SI		TEPIAT		AMOUNT		метно	
F	FROM	TO	DIAM. (inches)		VEL PACK SIZE				(cubic feet)		PLACEN	
TER												
K MA			-									
ILAR							<u> </u>	<u> </u>				
ANNULAR MATERIAL												·
3.4												
		l		<u> </u>								
	E NO.	NAL USE	499		POD NO).	1	WR-2	NO.			0/17)
	FILE NO. C-4499 POD NO. / TRN NO. / 82532 LOCATION 245.31E.20.243 WELL TAG ID NO. PAGE 1 OF 2											

.

	DEPTH (f	cet bgl) TO	THICKNESS (feet)	INCLUDE WATE	ID TYPE OF MATER BR-BEARING CAVIT oplemental sheets to f	IES OI	R FRAC	TURE ZONE	s	WAT BEARI (YES /	NG?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	6	6	SAND, well g	raded, fine-to-large gra	in part	icles red	l-brown, dry		¥	√ N	
	6	8	2		, fine grained little clay				moist	Y	✓ N	
	8	11	3		solidated, some sand, r					Y	√ N	
	11	46	35	CALICHE, mod. conse						Y	√ N	
	46	74	28		medium grain,caliche		-	•		Y	√ N	
	74	110	36		d, fine/large grain, few			<u> </u>	<u> </u>	Y	✓ N	
4. HYDROGEOLOGIC LOG OF WELL						,, -		,,. <u>,</u> .	-,	Y	N	
DF V										Y	N	
20										Y	N	
CLC								·		Y	N	
OGI										Y	N	
EOL									Y	N		
1DO										Y	N	
YDR											N	
4. H										Y	N	
										Y	N	
								1		Y	N	
										 Y	N	
										Y	N	
										Y		
					10.000 L					Y Y	N	
	METHOD I				COTRATA						N	
	_			OF WATER-BEARIN						AL ESTIM L YIELD		0.00
	PUM	° []A	IR LIFT	BAILER	THER - SPECIFY:						<u> </u>	
SION	WELL TES			ACH A COPY OF DAT ME, AND A TABLE S								
	MISCELLA	NEOUS INF	FORMATION: T		.1	11 1				·	6	
TEST; RIG SUPERVI			fe	emporary well materi et below ground surfa	als removed and the ace, then hydrated be	soil b entoni	oring b te chips	s from ten fee	ng drill et belov	l cuttings w ground	trom to surface	tal depth to ten to surface.
INS :			L	ogs adapted from WS	P on-site geologist.		-			-		
RIC												
EST;	DD INIT NIAN			RVISOR(S) THAT PRO	VIDED ONGITE SUB	EDVIG		E WELL CON	CTDI 1/		UED TU	AN LICENSEE
5. TI			KILL KIG SUFEI	(VISOR(S) THAT FRO	VIDED ONSITE SOF			r well con	SIKO		IIEK III	AN LICENSEE.
	Shane Eldri	ığe										
	THE UNDE	RSIGNED H	IEREBY CERTII	FIES THAT, TO THE F	BEST OF HIS OR HEI	R KNO	WLED	GE AND BEL	IEF, TI	HE FORE	GOING I	S A TRUE AND
URE				DESCRIBED HOLE AN 30 DAYS AFTER COM				THIS WELL I	RECOR	D WITH	THE ST	ATE ENGINEER
ΙΨ												
SIGNATURE	Jack A	tkins		Ja	ckie D. Atkins					01/15	/2021	
6.9	SIGNATURE OF DRILLER / PRINT SIGNEE NAME									DATE		
		JUINAI	UKE OF DRILLI	SK / FRINT SIGNED							DATE	
FOF	OSE INTER		. -					WR-20 WE				rsion 06/30/2017)
FIL	e no. 🛛 🕻	<u> </u>	<u>1499 </u>		POD NO.	1		TRN NO.	U	825	32	T
LOC	CATION		-				WELL	TAG ID NO.		- <u>1955</u> - 1966	ar gan ya ya ya	PAGE 2 OF 2
								ار کار ایس	E UI)	JHN Z	(2021	рм3;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:	CBJCHBCAABAAgs296c366oClflrLCiy9WDKJlrUnq-9u

"2021-1-15_C-4499_POD1_OSE_Well Record and Log_plu129-f orsign" 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

DEE DII JAN 27 2021 PM3:34





APPENDIX B

Photographic Log

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E N S O L U M	Photographic Log XTO Energy, Inc ROW 2 Pipeline nAPP2304148392				
© 343° NW (T) • 32.205465, -103.795671 ±9ft ▲ 3431ft	© 55° NE (T) • 32.205572, -103.795757 ±9ft ▲ 3431ft				
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				
© 355" N (T) • 32,205642,-103.795478 ±9ft ▲ 3421ft	© 310° NW (Ť) * 32.205763, -103.795499 ±6ft ▲ 3408ft				
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
© 71° NE (T) * 32.205868,-103.795795 ±6ft ▲ 3418ft	0 49° NE (1) • 32.20582,-103.795738 ±6ft ▲ 3418ft
Photograph: 5 Date: 9/9/2024 Description: Excavation activities View: Northeast	Photograph: 6 Date: 9/9/2024 Description: Excavation activities View: Northeast
© 156° SE (T) • 32.20591,-103.795481 ±9ft ▲ 3405ft	© 277° W (T) • 32.20584, 103.795529 ±6ft • 3405ft
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



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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 01 0.5 (H245340-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 \$	% 71.5-13	4						
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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 02 0.5 (H245340-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	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 \$	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed By: HM		d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 03 0.5 (H245340-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed By: HM		d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 04 0.5 (H245340-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 05 0.5 (H245340-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/04/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.5	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 06 0.5 (H245340-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed By: HM		d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 07 0.5 (H245340-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	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 \$	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed By: HM		d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 08 0.5 (H245340-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 09 0.5 (H245340-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 10 0.5 (H245340-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 11 0.5 (H245340-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 12 0.5 (H245340-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 13 0.5 (H245340-13)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 14 0.5 (H245340-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 15 0.5 (H245340-15)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 16 0.5 (H245340-16)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 17 0.5 (H245340-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 18 0.5 (H245340-18)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 19 0.5 (H245340-19)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	24						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	10						

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		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 20 0.5 (H245340-20)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14							

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		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 21 0.5 (H245340-21)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 22 0.5 (H245340-22)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 23 0.5 (H245340-23)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 24 0.5 (H245340-24)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.4	% 49.1-14	8						

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		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 25 0.5 (H245340-25)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	24						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	24						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	18						

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		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 26 0.5 (H245340-26)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 27 0.5 (H245340-27)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 35 0.5 (H245340-28)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	24						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	10						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 36 0.5 (H245340-29)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 37 0.5 (H245340-30)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 38 0.5 (H245340-31)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 39 0.5 (H245340-32)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	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 9	% 71.5-13	24						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	18						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 40 0.5 (H245340-33)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 41 0.5 (H245340-34)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 42 0.5 (H245340-35)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 43 0.5 (H245340-36)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	0						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC TACOMA MORRISSEY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/03/2024		Sampling Date:	09/03/2024
Reported:	09/06/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN			

Sample ID: CS 44 0.5 (H245340-37)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/04/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 40 of 44

	(575) 393-2326	(575) 393-2326 FAX (575) 393-2476	476			
Company Name: Ensolum, LLC	: Ensolum, LLC			BILL TO	Ĩ	ANALYSIS REQUEST
Project Manager:	r: Tacoma	Marriser		P.O. #:	_	
Address: 601	N	Marion Seld St	4400	company: XTO		
City: Midland		State: TX	Zip: 79701	NE VE	Ruth	
Phone #: 337	+088-492-462			iss:		1
Project #:	036 1558181	8/ Project Owner:	ň	city: Carlos bad	21	
Project Name:	ROW 2			I	220 0	15
Project Location:	2			Phone #:	8	-
Sampler Name:	Kowru Shi	Shirmola, Josh	h Boxley	Fax #:	0	8
FOR LAB USE ONLY				PRESERV. SAN	SAMPLING	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER :		TPU Chloride
-	CS01	0.5	λ	X	5	× ×
2	502	7	1 1 1		19 41	2
a	6503				10 43	
c	CS04				44 01	
S	505				10 46	
6	9 052				1107	
1	CSUF				1/ 1/	
00	CS 08				1112	
0	C509	7	11	1 1	1 12 1	
PLEASE NOTE: Liability and	CSIO d Damages. Cardinal's liability a	nd client's exclusive remedy for a	10 CS10 O-5 Cl X PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim inition whether based is contract or tot, shall be limited to the a	N	×	XM XM
analyses. All claims including service. In no event shall Car affiliates or successors arising	s including those for negligence and any it shall Cardinal be liable for incidental or sors arising out of or related to the perform	other cause whatsoever shall be consequental damages, including iance of services hereunder by C	analyses. All chains and/or those for negligence among yother cruice whatsore visual you way an unique or tary, anal or times to the amount pud by the client for the applicable analyses. All chains and/or those for negligence and any other cruise whatsore shall be deemed waved unless made in witing and received by Cardinal within 30 days after completion of the applicable deriver. In no event shall Cardinal be liable for incidential or consequential damages, including whorit limitation, business interruptions, loss of use, or loss of profits incurred by client. Its subaidastes, atfiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claims to based upon any of the above stated reasons or otherwise.	c) runc, anali se amised to the amount paid by the client for the d received by Cardinal within 30 days after completion of the s loss of use, or loss of profits incurred by client, its subsidiaries is based upon any of the above stated reasons or otherwise.	ant paid by the client for the applicable ys after completion of the applicable of by client, its subsidiaries, ted reasons or otherwise	
Relinquished By:		Date: 3. 2.	Received By:		Verbal Result: All Results are emailed.	□ Yes 27 No Add'I Phone #: ailed. Please provide Email address:
Neutry J	Shinnda	Time: ILL SD	Ondino		tmorrisse	1 @ ensolur
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Sampler - UPS - Bus - Other	Bus - Other:	Corrected Temp. *C			Thermometer ID #443 + Correction Factor - 9:5°C	1.0.0-

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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10 -	Ē	pth set)	(G)RAB OR (C)OMP.	WASTEWATER	OTHER : PRESERV. ACID/BASE: PRESERV. ICE / COOL COTHER : SAMPLING
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ZA C S Z O O. S O I X FL3-5V ND 95 X PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in contract or bot, shall be limited to the amount paid by the dient for the analyses. All claims including those for megigence and any other cause whatloover shall be deemed whether based in contract or bot, shall be limited to the amount paid by the dient for the analyses. All claims including those for megigence and any other cause whatloover shall be deemed whether based in contract or bot, shall be limited to the amount paid by the dient for the analysis. An exercise is not event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subaddimites.	C S 2 D images. Cardinal's liability and c one for negligence and any othe all be liable for incidental or core	equential damages, including without	ory claim a deemed without I	X X	O.S C1 X 13-24 12 25 art's exclusive remedy for any claim arising whether based in contract or tod, shall be limited to the amount paid by the claim for the cause whatsoever shall be deemed winved unless made in writing and received by Cardinal within 30 days after completion of the quental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by claim it is subaldiaries.
	ed By: Marvi Shimada, ed By:	Date: 71me: 10,53,72,4 Time: 10,53, Date:		Received By:	
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101 East Marland, Hobbs, NM 88240 aboratories RDINA

(575) 393-2326 FAX (575) 393-2476

Project #: 03C 156 8181 Phone #:-240-219-8856

(337)

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257-8367

Address:

State: TX

Zip: 79701

Attn: Wate Dittich Amy Ruth

Company: Oxy USA Inc.

XTO

Project Owner:

City: Carls byo

8021B 8015BM

City: Midland

Project Manager: Beaux Jennings Company Name: Ensolum, LLC

locorg

Morrisser

P.O. #:

BILL TO

ANALYSIS REQUEST

Address: 601 N Marienfeld Street, Suite 400

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	All Results are emailed. Please provide Email a
	therrissey & cosolui
	REMARKS:
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CHECKED BY: (Initials)	ADG 3.24 ARUSH Coc
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Standard X Bacteria (only) Sample Condition / Rush Cool Intact Observed Temp. °C Yes Yes No Corrected Temp. °C	ident		0	Please prov
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	nu Shimads	PLCASE WVI E: Leaving and Ummages, Caromar's submity and clearts exclusions enorgy for any dam arranges matering whether based in contract or for, shall be limited to be amount paid by the dent for application of the applications. All clears including these including these and any other cause whatebower shall be dentined whether discrete by Caromar's sources to receive by Caromar's head for the application of the application of the application of the application of the sources of the application of the sources of the application of the sources of the sources of the sources of the application of the sources of the	CS30	C529	6528	C227	6526	CS25	6524	CS23	(512	1257	Sample I.D.		Kaory Shimada		Rov- 2
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		t or tort, shall be limited t d received by Cardinal w loss of use, or loss of pro- is based upon any of the	X								2	×	OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV.	Fax #:	Phone #: 576-898-2828	State: NM Hr 89220
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Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Observed Temp. *C Z. 8 Corrected Temp. °C2: 22

Sample Condition Cool Intact

† Cardinal cannot accept verbal changes. Please er

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101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 43 of 44

Relinquished By: affiates or successors arising out of or related to the perform Relinquished By: service. In no event shall Cardinal be liable for incidental or con analyses. All claims including those for negligence and any other cause whatsoever shall be de PLEASE NOTE: Liability an Kaury Project Name: Project #: 036 1558181 Phone #: 240 249-8858 Project Location: Project Manager: Beaux Jeanings Sampler Name: City: Midland Address: 601 N Marienfeld Street, Suite 400 FOR LAB USE ONLY 245:340 Lab I.D. cues 2 28 23 Shi maudin Now haory Sample I.D. 539 6538 CS37 cs36 6435 N Shimeo (237) Situano Date: 3 24 Time: 50 Date: Time: ental damages, including without limitation, business inter services hereunder by Card Project Owner: ALDIMA Depth State: TX 0.5 (feet) 0 5 Jash 257-8307 Received By: Monisser 2 0 0 Received By: C C (G)RAB OR (C)OMP Zip: 79701 EM Date G # CONTAINERS GROUNDWATER 100 less made in writing and received by Cardinal within 30 days after com WASTEWATER × XXX MATRIX SOIL such claim is based upon any of the above OIL ations, loss of use, or loss of profits i SLUDGE t or tort, shall be limited to the OTHER Fax #: State: NM Zip: 88220 City: (who but P.O. #: Phone #: 575-390-2828 Company: Oxy USA Inc. 50 Attn: Wade Dittrich Awy Ruth Address: ACID/BASE PRESERV ICE / COOL OTHER 9-3-24 893-24 DATE SAMPLING by dient, its subsidiaries, paid by the client for the Same REMARKS: 11 35 1) 45 11 40 1155 tmorrissey Densidium.com 11,50 pletion of the applicable TIME 80ZID BTEX Incident + 8015M X TPH X Chloride χ 4300 0 x AFE Keys-

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

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Observed Temp. °C 2.82 Corrected Temp. "Cn. 2-

Cool Intact Sample Condition

CHECKED BY:

(Initials)

Turnaround Time: Standard HPG, 3:24 FRush Thermometer ID #113-1440 Correction Factor :05C -0.02

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Bacteria (only) Sample Condition

Observed Temp. °C Corrected Temp. °C

Cool Intact

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 44 of 44

Relinquished By: Relinquished By: service. In no event shall Cardinal be liable for incidental or cons analyses. All claims including those for negligence and any other cause what PLEASE NOTE: Liability and Da Sampler - UPS - Bus - Other: Delivered By: (Circle One) Project Name: Project #: 03C 155 818, Phone #: 210-219-8858 Sampler Name: Project Location: City: Midland Project Manager: Beaux Jennings Company Name: Ensolum, LLC Address: 601 N Marienfeld Street, Suite 400 1245340 FOR LAB USE ONLY Lab I.D. の の の 約 all 200300 Row 2 out of or related to the perform lanr 4 Sample I.D. 65 44 (575) 393-2326 FAX (575) 393-2476 542 CS 43 15 40 CS41 Cardinal's liability and w 27 Shi mady Corrected Temp. %2.2 Observed Temp. *C2. nce of services uental damages, including without limitation, business intern Date: 3. 24 Time: Date: Time: Fart: 257-8307 WOW? Project Owner: State: TX Depth 0.5 (feet) 0 S ever shall be dee n JOI ADG 105 Morrissev 00 Received By: C Zip: 79701 Received By: 2 C (G)RAB OR (C)OMP med waived # CONTAINERS Boxley GROUNDWATER whether based in contract or tort, shall be limited to the amount paid by the client for the unless made in writing and received by Cardinal within 30 days after completion of the applicable Cool Sample Condition + WASTEWATER Ves Ves MATRIX × × XX SOIL Intact such claim is based upon any of the above stated OIL uptions, loss of use, or loss of profils incurred by client, its subsidiaries SLUDGE OTHER Fax #: P.O. #: Phone #: 575-390-9828 City: Courts boo State: Company: Oxy USA Inc. Address: Attn: Wade Dittrich Arty ACID/BASE PRESERV CHECKED BY: × XX X ICE / COOL × (Initials) OTHER BILL TO Zip: 9-3-24 9-3-24 DATE SAMPLING Thermometer 10 #H3+# 140 sons or otherwise. Verbal Result:
Ves
Vo Add'I Phone #: All Results are emailed. Please provide Email address: Turnaround Time: OEL.I REMARKS: SAMe 1110 1115 1125 1120 TIME XTO Morrissey & ensolumicon Ruch 8021 D X BTE X Incodent χ 8015M 1 Standard k χ Chloride 4500 ANALYSIS REQUEST 0 Cool Intact Bacteria (only) Sample Condition Ves Yes Do S AFE Observed Temp. °C Corrected Temp. °C Keys

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

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

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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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:		
Received:	09/05/2024		Sampling Date:	09/03/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	79574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132 9	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:		
Received:	09/05/2024		Sampling Date:	09/03/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	9574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	(
Received:	09/05/2024		Sampling Date:	09/03/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	79574		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	(
Received:	09/05/2024		Sampling Date:	09/03/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	9574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	(
Received:	09/05/2024		Sampling Date:	09/03/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	79574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	(
Received:	09/05/2024		Sampling Date:	09/03/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	79574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	(
Received:	09/05/2024		Sampling Date:	09/03/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	79574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/09/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of 10

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

Company Name: Ensolum, LLC	Ensolum, LLC									1					BILL TO						A	ANALYSIS	SIS		REQUEST	5	1-	1		1		
Project Manager	Project Manager: Tacoma Morrissey									J	P.O. #:	*									-	_				_		_				
Addrace: 3122 N	Address: 3122 National Parks Hwy									0	B	par	IY:	X	Company: XTO Energy Inc.	Inc.	_		_	-	_	_									_	
City: Carlsbad		State: NM	Zip	Zip: 88220	220	-				Þ	Ŧ	A	ny	Attn: Amy Ruth	5				_		_	_										
Phone #: 337-257-8307	7-8307	Fax #:								Þ	dd	es	3	Address: 3104 E	Green	St																
Project #: 03C1558181	58181	Project Owner: XTO	XT	0						0	ity	C	Irls	City: Carlsbad			-			_		_			_			-				
Project Name: ROW 2	OW 2									S	tate	State: NM	N		Zip:88220				-	-	_	_			_	_						
Project I constion	. 32 20581 -103 79	574								P	ho	Phone #:	#					_	-	-	_	_			-			-		_		
Project Location	Project Location: 32.20581, -103./93/4	5/4								n 1		*	1					_		_		_			-			-		_		
Sampler Name: Joshua Boxley	Joshua Boxley		1		1						Fax #:	17			CAMP		-	-	-	-	_	_			-	_		-		-		
FOR LAB USE ONLY			P.				MA	MATRIX	×	-	70	RE	PRESERV.	2	SAME	SAMPLING	0	0	-	-	_	_			-	_		-				
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	Chloride 4500			BILX 0021			-			-						
di C C C D I	CS28	0.5								-	_	-	8		9/3/24	15.25	×		-	-	+	-			-	-		-				
12-	CS29								-	-	-				9/3/24	1415	×	-	+	-	-				-			+		-		
S	CS30					-		-	-	-	-	-			9/3/24	1410	×	-	+	-	+				-			-		-		
4	CS31						-		+	-	-				9/3/24	1	< ×	+	-	-	-	-						-		-		1
S	CS32				-		-	F	-	-	-				9/3/24	1400	+	×	-	-	+			T	+			+		+		1
6	CS33								-	-	-		5		9/3/24	1355		-	-		-			1	+			-		-		
2	CS34	5.0					X	-					X		9/3/24	1520	×	×	×											R	20	
																			-					H	-			+		+		H
PLEASE NOTE: Liability and Damages analyses. All claims including those for	PLEASE NOTE: Liability and Damagees. Cardinar's liability and client's exclusive remedy for any claim string whether based in contract or tort, shall be limited to the amount paid by the client for the applicab analyses. At claims including those for negligence and any other cause whatsoever shall be demed waived unless made in writing and received by Cardinal within 30 days after completion of the applicab analyses. At claims including those for negligence and any other cause whatsoever shall be demed waived unless made in writing and received by Cardinal within 30 days after completion of the applicab analyses. At claims including those for negligence and any other cause whatsoever shall be demed waived unless made in writing and received by Cardinal within 30 days after completion of the applicab analyses. The claims including those for negligence and any other cause whatsoever shall be demed waived unless made in writing and received by Cardinal within 30 days after completion of the applicab analyses. The claims including those for negligence and any other cause whatsoever shall be demended waived unless. The contract of profits incurred by client, its subsidiaries.	d client's exclusive remedy for any claim arising whether based in contract or for, that the limited to the amount paid by the client for the future antibute whatboever shall be deemed wahed unless made in witing and received by Cardinal within 30 days after completion of the a non-exclusive instances including without limitation, business interruptions, loss of user, or loss of profits incurred by client, its subsidiaries one-exclusive instances including without limitation, business interruptions, loss of user, or loss of profits incurred by client, its subsidiaries one-exclusion and annotes including without limitation, business interruptions, loss of user, or loss of profits incurred by client, its subsidiaries one-exclusion and annotes in the subsidiaries and the subsidiaries and the subsidiaries and the subsidiaries one-exclusion and the subsidiaries and the subsidiar	deeme deeme	im aris ed wai	sing w wed u	hethe nless	made ness	nterru	nting a	and ru s, los	tort, t s of u	shall ed by ise, o	Card Card	inal w	arking whether based in contract or tori, shall be limited to the amount paid by the cleant for the waved unless made in writing and received by Cardnal within 30 days after completion of the a limitetion, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	id by the client f ar completion of client, its subsid	or the the appli laries,	cable														
affiliates or successors aris	affiliates or successors arising out of or related to the performance		Cardina	dinal, regardless of whe	ardie		<-	er such claim is base	h cla	9 10	based	upo	n any	of the	e above stated re	Verbal Result:	esult:		□ Yes	I No	D	Add'l Phone #:	hon	*								
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FURM-UU	5 K 3.2 10/07/21	+ Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	Can	4)	lina		1	Í									



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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	,	
Received:	09/05/2024		Sampling Date:	09/04/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	9574		

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

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	95.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/09/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	0						

Cardinal Laboratories

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:		
Received:	09/05/2024		Sampling Date:	09/04/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	9574		

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

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/09/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:		
Received:	09/05/2024		Sampling Date:	09/04/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	9574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/09/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129 9	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:		
Received:	09/05/2024		Sampling Date:	09/04/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	9574		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/09/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:		
Received:	09/05/2024		Sampling Date:	09/04/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	9574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/09/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	(
Received:	09/05/2024		Sampling Date:	09/04/2024
Reported:	09/09/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20581-103.7	79574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/09/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Company Name: Ensolum, LLC Proiect Manager: Tacoma Morrissev			BILL TO			ANALYSIS REQUEST
Address: 3122 National Parks Hwy			P.O. #: Company: XTO Energy Inc		-	
City: Carlsbad	State: NM	Zip: 88220	Attn: Amy Ruth		_	
Phone #: 337-257-8307	Fax #:		Address: 3104 E Green St	en St		
Project #: 03C1558181	Project Owner: XTO	r: XTO	City: Carlsbad			
Project Name: ROW 2			State: NM Zip:88220	0		
Project Location: 32.20581, -103.79574	4					
Sampler Name: Joshua Boylou						
Sampler Name: Joshua Boxley			Fax #:			
FOR LAB USE ONLY		MATRIX	PRESERV. SAN	SAMPLING		
Lab I.D. Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	Chloride 4500	TPH 8015 BTEX 8021	
1 Swlod	pry'	· ×	N	12 0)01	N/N	
2 Gulon				N ohli	-	
3 5003				1245		
			-	222	-	
5	out	K 12	happy a	a achi	R	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client analyses. All claims including those for monisering and any other caranalyses.	ient's exclusive remedy for any claim	ny claim arising whether based in contract o	act or tort, shall be limited to the amount pa	Int paid by the client for the		
incose no negligence and any other o final be liable for incidental or conse out of or related to the performance	quental damages, including of services hereunder by C	sual ce evented waved unless made in writing and received by Cardinal within 33 days after completion of the a including without fundation, busies interruptions, loss of use, or loss of profits incurred by citient, its subsidiaries rafer by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise	received by Cardinal within 30 days aft ss of use, or loss of profits incurred by based upon any of the above stated re			
Relinquished By:	Time:52.J	Received By:		Verbal Result: C All Results are ema TMorrisse	esult: Yes No is are emailed. Please provid TMorrissey@ensolum.com	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: TMorrissey@ensolum.com bbe(i) @ewsolum.com
Kelinguished by:	Date: Time:	Received By:		REMARKS: Incident: NAPP2304148392 Cost Center:	2304148392	AFEs: DD.2017.04407.CAP.CMP.01 DD.2017.04406.CAP.CMP.01 DD.2017.04378.CAP.CMP.01
Delivered By: (Circle One) Obs Sampler - UPS - Bus - Other: Corr	Corrected Temp. "CZ.02	Sample Condition	on CHECKED BY: (Initials)	2 <u># _ @</u>	AD Standard	X Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes Yes

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

Page 85 of 209

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL aboratories



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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	ľY	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.7	79574		

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

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/11/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/11/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.2	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/11/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	т З С	ENSOLUM FACOMA MORRISSEY 8122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/11/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/11/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/11/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	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 \$	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/11/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/11/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.7	9574		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/11/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	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	99.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/11/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.5	% 49.1-14	8						

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	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

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	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.6	% 49.1-14	8						

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	TA 31 CA	NSOLUM ACOMA MORRISSEY 122 NATIONAL PARKS HW ARLSBAD NM, 88220 IX To:	ſŶ	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.795	574		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

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	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 49.1-14	8						

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	TA 31 CA	NSOLUM ACOMA MORRISSEY 122 NATIONAL PARKS HW ARLSBAD NM, 88220 IX To:	ſŶ	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.795	574		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	ד 3 0	ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Ŷ	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.6	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	TA 31 CA	NSOLUM ACOMA MORRISSEY 122 NATIONAL PARKS HW ARLSBAD NM, 88220 IX To:	ſŶ	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.795	574		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	ſY	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.2	79574		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	TA 31 CA	NSOLUM ACOMA MORRISSEY 122 NATIONAL PARKS HW ARLSBAD NM, 88220 IX To:	ſY	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.795	574		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	Т. З С	NSOLUM ACOMA MORRISSEY 122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	ſŶ	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	574		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager


	Т. З С	NSOLUM ACOMA MORRISSEY 122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	ſY	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	574		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	TA 31 CA	NSOLUM ACOMA MORRISSEY 122 NATIONAL PARKS HW ARLSBAD NM, 88220 IX To:	ſY	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.795	574		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ר 3 (ENSOLUM FACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	09/10/2024		Sampling Date:	09/09/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.79	9574		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	TAC 312 CAF	SOLUM COMA MORRISSEY 22 NATIONAL PARKS HWY RLSBAD NM, 88220 3 To:		
Received:	09/10/2024		Sampling Date:	09/05/2024
Reported:	09/12/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20581,-103.7957	'4		

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/12/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 117 of 209



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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	ľY	
Received:	09/19/2024		Sampling Date:	09/13/2024
Reported:	09/23/2024		Sampling Type:	Soil
Project Name:	ROW 2		Sampling Condition:	Cool & Intact
Project Number:	03C1558181		Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20581,-103.7	79574		

Sample ID: CS 29 0.5 (H245700-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/20/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	0						

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*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240 200 atories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Corrected Temp. Ubserved lemp. † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com ô c 2

Sampler - UPS - Bus - Other: 7// 0/01 Cool Intact Yes Yes No No ample Condition (Initials) ¢ 2 DAY Therm ection Factor -0.5°C eter ID Rush 16-01 ard REE Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Vet Yes Nc No Corrected Temp. °C Corrected Temp. °C

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Project Manage	Project Manager: Tacoma Morrissey	y		P.O. #:			
Address: 3122 N	Address: 3122 National Parks Hwy			Company: XTO Energy Inc.	y Inc.		_
City: Carlsbad		State: NM	Zip: 88220	Attn: Amy Ruth			_
Phone #: 337-257-8307	57-8307	Fax #:		Address: 3104 E Green St	in St		
Project #: 03C1558181	558181	Project Owner: XTO	r: XTO	City: Carlsbad			_
Project Name: ROW 2	ROW 2			State: NM Zip:88220	0		
Project Location	Project Location: 32.20581, -103.79574	574					
Sampler Name: Joshua Boxley	Joshua Boxley			Fax #:			_
FOR LAB USE ONLY			MATRIX	ESERV.	SAMPLING		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE	Chloride 4500 TPH 8015 BTEX 8021		
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APPENDIX D

August 17, 2023 Closure Request

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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

0

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 interlayed 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 1meets 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

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 Tal NMAC	ble 1 Closure Cr	iteria 19.15.29	50 mg/kg	10 mg/kg	GRO + DRO mg/kg	+ MRO com	pined = 1000	2,500 mg/kg	20,000 mg/kg
	3/14/2023	0-1'	ND	ND	ND	ND	ND	0	2800
S-1	3/14/2023	2'	ND	ND	ND	ND	ND	0	1700
3-1	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
5-2	3/14/2023	2' R	ND	ND	ND	ND	ND	0	5300
	3/14/2023	0-1'	ND	ND	ND	ND	ND	0	3700
S-3	3/14/2023	2'	ND	ND	ND	ND	ND	0	380
	3/14/2023	3' R	ND	ND	ND	ND	ND	0	ND
	3/14/2023	0-1'	ND	ND	ND	ND	ND	0	2500
S-4	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 = Backgro	ound Sample ND	= Analyte Not De	etected R = R	efusal with H	land 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 Tal	ole 1 Closure Cr NMAC	iteria 19.15.29	50 mg/kg	10 mg/kg	GRO + DRO	O + MRO comb mg/kg	oined = 100	2,500 mg/kg	10,000 mg/kg
BH-2	5/2/2023	4'	NT	NT	NT	NT	NT	0	1000
вп-2	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 S	Sample, NT = A	Analyte Not 1	Tested, R = Ret	fusal with han	d auger		

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.

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 Ta	ble 1 Closure Crite NMAC	eria 19.15.29	50 mg/kg	10 mg/kg	GRO + DRO	0 + MRO comb mg/kg	oined = 100	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
				Contin	ued				

Table III Confirmation:

Page **3** of **6**

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Qwik Pipe August 15, 2023

	1		1			1	-	-	-
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 = Analy	te Not Tested,	ND = Analyte	Not Detected,	SW = Sidewal	l Sample		

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 Tab	ole 1 Closure Cr NMAC	iteria 19.15.29	50 mg/kg	10 mg/kg	GRO + DRO	D + MRO comb mg/kg	bined = 100	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.

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

(NAD 83 in decin	nal degrees to 5 decimal places)
Site Name ROW 2	Site Type Pipeline
Date Release Discovered $01/28/2023$	API# (if applicable)

Longitude

-103.79570

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

Surface Owner: 🗵 State 🗌 Federal 🗌 Tribal 🗌 Private (Name: _____

Nature and Volume of Release

Materi	al(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
► 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?	X Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
	transfer company failed to open a valve which caused a party contractor has been retained for remediation purpor	

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		Incident ID	NAPP2304148392
ge 2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
W/se (line section)		· · · · · · · · · · · · · · · · · · ·	
Was this a major	If YES, for what reason(s) does the responsible part	y consider this a major release	<i>!</i>
release as defined by 19.15.29.7(A) NMAC?	A release greater than 25 barrels.		
🗶 Yes 🗌 No			
If YES, was immediate n	otice given to the OCD? By whom? To whom? Wh	en and by what means (phone,	email, etc)?
Yes, by Garrett Green to o on 1/29/2023 via email.	ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMN	RD; Hamlet, Robert, EMNRDI	Harimon, Jocelyn, EMNRD
	Initial Response	e	
The responsible	party must undertake the following actions immediately unless they	could create a safety hazard that wou	ld result in injury
\checkmark The source of the relation	ease has been stopped.		
_	is been secured to protect human health and the enviro	onment	
	is seen seemed to protect number nearth and the enviro		

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

▲ 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:	Title:
Signature:Safe Sum email:garrett.green@exxonmobil.com	Date: 02/10/2023 Telephone: 575-200-0729
OCD Only Received by: Jocelyn Harimon	Date: <u>02/10/2023</u>

Location:	ROW 2 Pipeline	
Spill Date:	1/28/2023	
	Area 1	
Approximate A	rea = 18976.00	sq. ft.
Average Satura	tion (or depth) of spill = 2.00	inches
Average Porosi	ty 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



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Appendix II

Site Maps



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Location Map





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Eddy County, NM

Topography Map



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Eddy County, NM

Site Assessment Map





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32.205522, -103.796187

32.205528, 103.796550

32.205520, 103.79

10 12 1 J. J. C. P. C.





Appendix III

Groundwater Data, Soil Survey, & Wetlands Map

	W	late						00	v	the State ge De	0	eer 5 Wat e	er
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orphat C=the file closed)	ned, e is	1		1			V 2=NE est to la	3=SW 4=SF rgest) (N	E) IAD83 UTM in n	neters)	(In feet)	
		POD Sub-		0	Q Q)							Water
POD Number	Code		County	-	-	-	Tws	Rng	X	Y	DistanceDer	othWellDepthW	
<u>C 04499 POD1</u>		CUB	ED	3	4 2		24S	31E	613719	3563732 🥘	333	111	
<u>C 04508 POD1</u>		CUB	ED	4	4 3	15	24S	31E	616298	3564493 🌍	2919	110	
										Avera	ge Depth to Wat	er:	
											Minimum De	pth:	
											Maximum Dej	pth:	
Record Count: 2													
UTMNAD83 Radius	<u>Search (in</u>	meters)	<u>:</u>										
Easting (X): 613	437		North	ning	(Y):	3563	3910.32	2		Radius: 3000			

2/1/23 3:29 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

.



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 Se	e Tws Rng	X Y	
NA	C 04499 POD1	3 4 2 20	24S 31E	613719 3563732	
x Driller Lic	ense: 1249	Driller Company:	ATKINS EI	NGINEERING ASSOC. I	NC.
Driller Nai	ne: ATKINS, JACKI	E D.UELENER			
Drill Start	Date: 12/30/2020	Drill Finish Date:	12/30/202	20 Plug Date:	01/19/2021
Log File D	ate: 01/27/2021	PCW Rcv Date:		Source:	
Pump Type	e:	Pipe Discharge Size	2:	Estimated Yield	l:
Casing Size	•	Depth Well:	111 feet	Depth Water:	

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.

2/1/23 3:30 PM

POINT OF DIVERSION SUMMARY


United States Department of Agriculture

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



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		פבאר		MAP INFORMATION
of Inte	rest (AOI) Area of Interest (AOI)	10 Q	Spoil Area Stony Spot	The soil surveys that comprise your AOI were mapped at 1:20,000.
Soils Soil	Soil Map Unit Polygons	8	Very Stony Spot	Warning: Soil Map may not be valid at this scale.
Soil	Soil Map Unit Lines	⊳ <	Wet Spot Other	Enlargement of maps beyond the scale of mapping can cause
Soil	Soil Map Unit Points	1	Special Line Features	misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of
Special Point Features	oint Features	Water Features	stures	contrasting soils that could have been shown at a more detailed
	Borrow Pit	2	Streams and Canals	
	Clay Spot	Transportation Rai	tation Rails	Please rely on the bar scale on each map sheet for map measurements
© Clõ	Closed Depression		Interstate Highwavs	
Gra	Gravel Pit	1	US Routes	Source of Map: Natural Resources Conservation Service Web Soil Survey URL:
:: Gra	Gravelly Spot	1	Major Roads	Coordinate System: Web Mercator (EPSG:3857)
🕲 Lan	Landfill	2	Local Roads	Maps from the Web Soil Survey are based on the Web Mercator
A Lav	Lava Flow	Background	nd	projection, which preserves direction and shape but distorts
📥 Mar	Marsh or swamp	8	Aerial Photography	distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more
¢,	Mine or Quarry			accurate calculations of distance or area are required.
Mis	Miscellaneous Water			This product is generated from the USDA-NRCS certified data as
Per	Perennial Water			of the version date(s) listed below.
Roc	Rock Outcrop			Soil Survey Area: Eddy Area, New Mexico
+ Sali	Saline Spot			Survey Area Data: Version 18, Sep 8, 2022
sar.	Sandy Spot			Soil map units are labeled (as space allows) for map scales
₿ Sev	Severely Eroded Spot			1:50,000 or larger.
Sinl	Sinkhole			Date(s) aerial images were photographed: Feb 7, 2020—Mav
Slid	Slide or Slip			12, 2020
Sod	Sodic Spot			The orthophoto or other base map on which the soil lines were
				compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor

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

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

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

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





2,000 Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020 103°47'28"W 32°12'7" Additional Flood Hazard Layer FIRMette 1:6,000 AREA OF MINIMAL FLOOD HAZARD Feet 35015C1650D eff. 6/4/2010 1,500 1,000 Eddy/County 350120 500 250



Appendix IV

Photographic Documentation



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Qwik Pipe Plug 17





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Qwik Pipe Plug 17





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Appendix V

Laboratory Data



March 24, 2023

Rebecca Pons BDS Enterprises 1705 E Greene St Carlsbad, NM 88220 TEL: (575) 441-0980 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Plug 17

2303844-001

Project:

Lab ID:

Analytical Report Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-1 0-1' Collection Date: 3/14/2023 10:00:00 AM Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				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

Matrix: SOIL

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

Qualifiers:

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

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Plug 17 2303844-002

Project:

Lab ID:

Analytical Report Lab Order 2303844

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2023 Client Sample ID: S-1 2' Collection Date: 3/14/2023 10:03:00 AM

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

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				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

Matrix: SOIL

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

Qualifiers:

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

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Plug 17 2303844-003

Project:

Lab ID:

Analytical Report Lab Order 2303844

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2023

Client Sample ID: S-1 3' Collection Date: 3/14/2023 10:06:00 AM Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				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

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

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Plug 17

2303844-004

Project:

Lab ID:

Analytical Report Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-1 4' Collection Date: 3/14/2023 10:09:00 AM

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

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				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

Matrix: SOIL

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

Qualifiers:

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

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Project: Plug 17

Analytical Report Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-2 0-1' Collection Date: 3/14/2023 10:15:00 AM **Received Date:** 3/16/2023 8:00:00 AM

Lab ID: 2303844-005	Matrix: SOIL	Rece	eived Date:	3/16/2	023 8:00:00 AM
Analyses	Result	RL Qu	al 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 RANG	E				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. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Plug 17

2303844-006

Project:

Lab ID:

Analytical Report Lab Order 2303844

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2023 Client Sample ID: S-2 2' R Collection Date: 3/14/2023 10:18:00 AM

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

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				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

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Plug 17

2303844-007

Project:

Lab ID:

Analytical Report Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-3 0-1' Collection Date: 3/14/2023 10:25:00 AM

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

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				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

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2303844

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2023 Client Sample ID: S-3 2' 2/14/2022 10.29.00 AM ... -

Project:	Plug 17		Collec	ction Date:	3/14/2	023 10:28:00 AM
Lab ID:	2303844-008	Matrix: SOIL	Rece	eived Date:	3/16/2	023 8:00:00 AM
Analyses		Result	RL Qu	al Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL F	ANGE ORGANICS				Analyst: PRD
Diesel R	ange Organics (DRO)	ND	9.7	mg/Kg	1	3/20/2023 10:02:40 PM
Motor Oi	I 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 ME	THOD 8015D: GASOLINE	RANGE				Analyst: JJP
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	3/18/2023 8:58:20 AM
Surr: E	BFB	96.9	37.7-212	%Rec	1	3/18/2023 8:58:20 AM
EPA ME	THOD 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
Ethylben	zene	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	4-Bromofluorobenzene	93.2	70-130	%Rec	1	3/18/2023 8:58:20 AM
EPA ME	THOD 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. D Sample Diluted Due to Matrix

- н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Plug 17

2303844-009

Project:

Lab ID:

Analytical Report Lab Order 2303844

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2023 Client Sample ID: S-3 3' R Collection Date: 3/14/2023 10:31:00 AM

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

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				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

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 9 of 20

Plug 17

2303844-010

Project:

Lab ID:

Analytical Report Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-4 0-1' Collection Date: 3/14/2023 10:40:00 AM Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				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

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Chloride

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 2303844

Hall Environmental Analysis Laboratory, Inc.

Hall Environmental Analys	is Laboratory, Inc			Da	te Reported: 3/24/2023
CLIENT: BDS Enterprises		Client Sa	mple ID:	s-4 2'	
Project: Plug 17		Collecti	on Date:	3/14/2	2023 10:43:00 AM
Lab ID: 2303844-011	Matrix: SOIL	Receiv	ed Date:	3/16/2	2023 8:00:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAM	IGE 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 RA	NGE				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

0.049

0.098

70-130

150

mg/Kg

mg/Kg

%Rec

mg/Kg

1

1

1

50

3/20/2023 1:49:45 PM

3/20/2023 1:49:45 PM

3/20/2023 1:49:45 PM

3/21/2023 10:47:02 AM

Analyst: SNS

ND

ND

92.9

3500

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project: Plug 17

Analytical Report Lab Order 2303844

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2023 Client Sample ID: S-4 3' R Collection Date: 3/14/2023 10:46:00 AM Dessived Data: 2/16/2022 9:00:00 AM

Lab ID: 2303844-012	Matrix: SOIL	Rece	eived Date:	3/16/2	023 8:00:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	IGE 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 RA	NGE				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. D Sample Diluted Due to Matrix

- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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н Holding times for preparation or analysis exceeded

Plug 17

Project:

Analytical Report Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG-1 0' Collection Date: 3/14/2023 10:50:00 AM Received Date: 3/16/2023 8:00:00 AM

Lab ID: 2303844-013	Matrix: SOIL	Reco	eived Date:	3/16/2	2023 8:00:00 AM
Analyses	Result	RL Qu	al 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 RANGI	E				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.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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Plug 17

2303844-014

Project:

Lab ID:

Analytical Report Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG-2 0' Collection Date: 3/14/2023 10:55:00 AM Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				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

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Plug 17

Project:

Analytical Report Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG-3 0' Collection Date: 3/14/2023 11:00:00 AM Received Date: 3/16/2023 8:00:00 AM

Lab ID: 2303844-015	Matrix: SOIL	Rece	eived Date:	3/16/2	2023 8:00:00 AM
Analyses	Result	RL Qu	al 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 RANG	E				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. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 11/8/2024 1:46:09 PM

Plug 17

Project:

Analytical Report Lab Order 2303844

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG-4 0' Collection Date: 3/14/2023 11:05:00 AM Received Date: 3/16/2023 8:00:00 AM

Lab ID: 2303844-016	Matrix: SOIL	Rece	vived Date:	3/16/2	023 8:00:00 AM
Analyses	Result	RL Qu	al 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 RANG	E				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. D Sample Diluted Due to Matrix

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 16 of 20

н Holding times for preparation or analysis exceeded

Client: Project:	BDS Ente Plug 17	erprises									
Sample ID:	C C	SampT	vpe: mt	lk	Tes	stCode: FI	PA Method	300.0: Anions			
Client ID:	PBS	•	ID: 73			RunNo: 9					
Prep Date:	3/18/2023	Analysis D				SeqNo: 3		Units: mg/K	~		
T Tep Date.	5/10/2025	Analysis D							-		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-73789	SampT	ype: Ics	;	Tes	tCode: El	PA Method	300.0: Anions			
Client ID:	LCSS	Batch	ID: 73	789	F	RunNo: 9	5382				
Prep Date:	3/18/2023	Analysis D	ate: 3/	18/2023	5	SeqNo: 34	450257	Units: mg/K	g		
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	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	300.0: Anions			
Client ID:	PBS	Batch	ID: 73	818	F	RunNo: 9	5410				
Prep Date:	3/20/2023	Analysis D	ate: 3/	20/2023	S	SeqNo: 34	451749	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-73818	SampT	ype: LC	S	Tes	tCode: El	PA Method	300.0: Anions			
Client ID:	LCSS	Batch	ID: 73	818	F	RunNo: 9	5410				
Prep Date:	3/20/2023	Analysis D	ate: 3/	20/2023	S	SeqNo: 34	451750	Units: mg/K	g		
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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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2303844

24-Mar-23

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: BDS Ent	terprises								
Project: Plug 17									
Sample ID: MB-73780	SampType:	MBLK	Tes	tCode: EP/	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID:	73780	F	RunNo: 95 3	386				
Prep Date: 3/17/2023	Analysis Date:	3/20/2023	S	SeqNo: 345	50480	Units: mg/K	g		
Analyte	Result PQI	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 1	0							
Motor Oil Range Organics (MRO)	ND 5	50							
Surr: DNOP	10	10.00		99.6	69	147			
Sample ID: LCS-73780	SampType: I	LCS	Tes	tCode: EP/	A Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID:	73780	F	RunNo: 95 3	386				
Prep Date: 3/17/2023	Analysis Date:	3/20/2023	S	SeqNo: 345	50495	Units: mg/K	g		
Analyte	Result PQI	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47 1	0 50.00	0	93.0	61.9	130			
Surr: DNOP	5.1	5.000		102	69	147			
Sample ID: MB-73819	SampType: I	MBLK	Tes	tCode: EPA	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID:	73819	F	RunNo: 95 4	415				
Prep Date: 3/20/2023	Analysis Date:	3/21/2023	S	SeqNo: 345	51853	Units: mg/K	g		
Analyte	Result PQI	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 1	0							
Motor Oil Range Organics (MRO)	ND 5	50							
Surr: DNOP	9.2	10.00		92.0	69	147			
Sample ID: LCS-73819	SampType: I	LCS	Tes	tCode: EP/	A Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID:	73819	F	RunNo: 95 4	415				
Prep Date: 3/20/2023	Analysis Date:	3/21/2023	S	SeqNo: 34	51856	Units: mg/K	g		
Analyte	Result PQI	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50 1	0 50.00	0	99.8	61.9	130			

Qualifiers:

Surr: DNOP

- * 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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.

5.0

5.000

B Analyte detected in the associated Method Blank

99.7

69

147

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2303844

24-Mar-23

WO#:

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

BDS Enterprises

Project:	Plug 17	Siprises									
Sample ID:	lcs-73767	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID:	LCSS	Batc	h ID: 737	767	F	RunNo: 9	5348				
Prep Date:	3/16/2023	Analysis [Date: 3/ *	17/2023	\$	SeqNo: 34	449933	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	20	5.0	25.00	0	81.6	70	130			
Surr: BFB		1800		1000		179	37.7	212			
Sample ID:	mb-73767	Samp	Гуре: МЕ	BLK	Tes	stCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID:	PBS	Batcl	h ID: 737	767	F	RunNo: 9	5348				
Prep Date:	3/16/2023	Analysis [Date: 3/ *	17/2023	:	SeqNo: 34	449934	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		960		1000		96.2	37.7	212			
Sample ID:	lcs-73777	SampT	Гуре: LC	S	Tes	stCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID:	LCSS	Batcl	h ID: 737	777	F	RunNo: 9	5394				
Prep Date:	3/17/2023	Analysis [Date: 3/ 2	20/2023	:	SeqNo: 34	451025	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	22	5.0	25.00	0	87.9	70	130			
Surr: BFB		1900		1000		189	37.7	212			
Sample ID:	mb-73777	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID:	PBS	Batc	h ID: 737	777	F	RunNo: 9	5394				
Prep Date:	3/17/2023	Analysis [Date: 3/ 2	20/2023	\$	SeqNo: 34	451026	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	ge 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 Quanitative 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

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2303844

24-Mar-23

WO#:

Client:

Project:

Sample ID: LCS-73767

Client ID: LCSS

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Batch ID: 73767

BDS Enterprises

Plug 17

Prep Date: 3/16/2023	Analysis I	Date: 3/	17/2023	:	SeqNo: 34	449967	Units: mg/K	g		
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	Samp	Туре: МЕ	BLK	Tes	stCode: El	PA Method	8021B: Volati	les		
Client ID: PBS	Batc	h ID: 73	767	F	RunNo: 9	5348				
Prep Date: 3/16/2023	Analysis I	Date: 3/	17/2023	\$	SeqNo: 34	449968	Units: mg/K	g		
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	Samp	Туре: LC	S	Tes	stCode: El	PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: 73	777	F	RunNo: 9	5394				
Prep Date: 3/17/2023	Analysis I	Date: 3/	20/2023	Ş	SeqNo: 34	451035	Units: mg/K	g		
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	Samp	Type: ME	BLK	Tes	stCode: El	PA Method	8021B: Volati	les		
Client ID: PBS	Batc	h ID: 73	777	F	RunNo: 9	5394				
Prep Date: 3/17/2023	Analysis I	Date: 3/	20/2023	:	SeqNo: 34	451036	Units: mg/K	g		
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 Contant Sample Diluted Due to Matrix Holding times for preparation or a Not Detected at the Reporting Lin 	nalysis exceeded			E Above Qu J Analyte de	antitation Rang	ssociated Method ge/Estimated Valu quantitation limits	ie		Page 20 o	f 20

TestCode: EPA Method 8021B: Volatiles

RunNo: 95348

PQL Practical Quanitative Limit

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

- Sample pH Not In Range Р
- RL Reporting Limit

WO#:	230	3844
	24.14	

24-Mar-23

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmen TEL: 505-345-39 Website: www	4901 H Albuquerque, 975 FAX: 505	awkins NE NM 87109 -345-4107	San	nple Log-In C	heck List
Client Name: BDS Enterprises	Work Order Numl	oer: 230384	4		RcptNo:	1
Received By: Desiree Dominguez	3/16/2023 8:00:00 /	٩M	T	Ž	John	
Completed By: Sean Livingston	3/16/2023 9:15:20 /	۹M	S	-6	John	
Reviewed By: DAD 3/11/23						
Chain of Custody						
1. Is Chain of Custody complete?		Yes 🗹] N	o 🗌	Not Present	
2. How was the sample delivered?		<u>Courier</u>				
<u>Log In</u>				_	_	
3. Was an attempt made to cool the samples?		Yes 🗹) No	b	NA 🗌	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	N	• 🗆	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) proper	ly 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 🗌			NA 🗹	
10. Were any sample containers received broke	n?	Yes 🗆	No	。 ☑	# of preserved bottles checked	/
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No		for pH:	>12 unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No		Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No	• 🗆		A
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No		Checked by:	M3-16-23
Special Handling (if applicable)					0	
15. Was client notified of all discrepancies with	this order?	Yes] No	•	NA 🗹	
Person Notified:	Date:	J				
By Whom:	Via:	🗌 eMail	Phone [] Fax	In Person	
Regarding:			AN ANY LODGE VALUE			
Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp ^o C Condition S	eal Intact Seal No	Seal Date	Signed	Bv		
	t Present Morty	UCUI Dalo	Cigited			

Received by	0CD: 1	0/7/2024	Received by OCD: 10/7/2024 2:20:06 PM	Turn-Around Time:	Time:		Page 179 of 209
Client:	BDS En	BDS Environmental	ntal	K Standard	d Rush	0 Rush 5-24.4	ANALYSIS LABORATORY
1				Project Name:	3		www.hallenvironmental.com
Mailing Address:	Address	2 2	1705 Greene St	Plug 17			4901 Hawkins NE - Albuquerque, NM 87109
Carlsbad N.M	M.M b	88220		Project #:			Tel. 505-345-3975 Fax 505-345-4107
Phone 1	575	575 247-1106	9				Analysis Request
email or Fax#:	Fax#:	rebecca(rebecca@bdsoilfield.com.jamesc@bd Project Manager:	Project Mana	jer:		
QA/QC Package:	ackage:			Rebbeca Pons	S		
Standard	lard		Level 4 (Full Validation)				
Accreditation:	ation:	D Az Co	Az Compliance	J. Carnes			
	Ş	D Other			sd Yes I	O No	- 0
	EDD (Type)	-		olers:	1	Worty	
				Cooler Temp(Cooler Temp(Including CF): (, 7,	-0,12/20-	
				Container	Brocervative		
Date	Time	Matrix	Sample Name	*	Type	2303244	LΙ
3/14/2023	10:00	Soil	S-1 0-1	Glass Jar/1	ice/Cool	100	
3/14/2023	10:03	Soil	S-1 2'	Glass Jar/1	Ice/Cool	کرد	x x x x
3/14/2023	10:06	Soil	S-1 3'	Glass Jar/1	lce/Caol	202	
3/14/2023	10:09	Soil	S-1 4'	Glass Jar/1	lce/Cool	500	x x x x
3/14/2023	10:15	Soil	S-2 0-1'		Ice/Cool	200	
3/14/2023	10:18	Soil	S-2 2' R		Ice/Cool	200	
3/14/2023	10:25	Soil	S-3 0-1'	Glass Jar/1	lce/Caol	400	
3/14/2023	10:28	Soil	S-3 2'	Glass Jar/1	Ice/Cool	20%	
3/14/2023	10:31	Soil	S-3 3' R	Glass Jar/1	lce/Caol	500	
3/14/2023	10:40	Soil	S-4 0-1'	Glass Jar/1	lce/Caol	210	
3/14/2023	10:43	Soil	S-4 2'	Glass Jar/1	Ice/Cool	1.10	
3/14//2023		-	S-4 3' R	<u>_</u>	Ice/Cool		
-	Time:	Relinquished by	led by:	Received by:			Remarks: Email Results to: repecca@bdsoiffield.com, jamesc@bdsoiffield.com Page 1/2
0 10 12	000	Ala	no los	MM	0.22	3/15/23 800	
Date:	Time:	Reinquished by:	led by:	Received by:			
3/15/13/900	1900	Cul	" "	10	Contier	3/16/23 8:00	
	lé nanace	and complete	submitted to Hell Environmental may be su	hontracted to other	accredited laboratorie	is This serves as notice of th	ubmitted to Hall Environmental may be supcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 11/8/2024 1:46:09 PM

Received by	ocp: 1	0/7/2024	Received by OCD: 10/7/2024 2:20:06 PM Chain-of-Custody Record	Turn-Around	Time:			Page 180 of 209) of 209
Client:	BDS En	BDS Environmental	ıtal	C Standard	🕅 Rush	5-Dag		ANALYSIS LABORATORY	
				Project Name:				www.hallenvironmental.com	
Mailing Address:	Address:		1705 Greene St	Plug 17			4901 P	4901 Hawkins NE - Albuquerque, NNI 87109	
Carlsbad	N.M	88220		Project #:		2	Tel. 5	505-345-3975 Fax 505-345-4107	
Phone ³	575	247-1106	9					Analysis Request	
email or Fax#:	1	rebecca(rebecca@bdsoilfield.com.iamesc@bd Project Manager:	Project Mana	ger:				
QA/QC Package:	ackage:			Rebbeca Pons	ស្ម				
D Standard	lard		Level 4 (Full Validation)				<u>ء</u> ن		
Accreditation:	ation:		□ Az Compliance	J. Carnes			=		
	ç	Other_		On Ice:	⊠ Yes ⊏	ON D	0		
🗆 EDD (Type)	(Type)	1		# of Coolers:	1	Marty			
1				Cooler Ternp(Including CF):	(Including CF): 1.7	-0.1=1.6%	ł		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	- Ш Х - С Т о Ф С		
3/14/2023	10:50	Soil	BG-1 0'	Glass Jar/1	Ice/Cool	013	XXX		
3/14/2023	10:55	Soil	BG-2 0'	Glass Jar/1	ice/Cool	510	X X X		
3/14/2023	11:00	Soil	BG-3 0'	Glass Jar/1	Ice/Cool	215	XXX		-1
3/14/2023	11:05	Soil	BG-4 0'	Glass Jar/1	lce/Cool	DIC	X X X		I
					3				
					,				
						2			
1	Time:	Relinquished by:	led by:	Received by:	Via:	Date Time	Remarks: Email	Remarks: Email Results to: rebecca@odsoilfield.com, jamesc@bdsoilfield.com Page 2/2	2/2
2	and		es las	CULLU		3/15/23 BOD			
	Time:	Befinduished by:	led by:	Received by:	Via:	Date Time			
350	1900		Come a long		Courter	> Courier 3/14/27 3:00			
		10	minimise submitted to Hall Environmental may be subcontracted to other	incontracted to other		s. This serves as notice of th	his possibility. Any s	accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice Released to Imaging: 11/8/2024 1:46:09 PM


May 15, 2023

Rebecca Pons BDS Enterprises 1705 E Greene St Carlsbad, NM 88220 TEL: (575) 441-0980 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analy	Analytical Report Lab Order 2305199 Date Reported: 5/15/2023				
CLIENT: BDS Enterprises		Client Sa	mple ID:	BH-2	4'
Project: Plug 17	Collection Date: 5/2/2023 9:30:00 AM				
Lab ID: 2305199-001	Matrix: SOIL Received Date: 5/4/2023 7:20:00 AM				
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	1000	60	mg/Kg	20	5/6/2023 1:23:38 AM

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

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 4

Hall Environmental Analy	Analytical Report Lab Order 2305199 Date Reported: 5/15/2023				
CLIENT: BDS Enterprises		Client Sa	nple ID:	BH-2	6'R
Project: Plug 17	Collection Date: 5/2/2023 9:50:00 AM				
Lab ID: 2305199-002	Matrix: SOIL Received Date: 5/4/2023 7:20:00 AM				
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	2600	150	mg/Kg	50	5/8/2023 11:48:37 AM

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

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 4

Hall Environmental Analy	Analytical Report Lab Order 2305199 Date Reported: 5/15/2023					
CLIENT: BDS Enterprises		Client Sa	mple ID:	BH-4	5'R	
Project: Plug 17	Collection Date: 5/2/2023 10:55:00 AM					
Lab ID: 2305199-003	Matrix: SOIL	Matrix: SOILReceived Date: 5/4/2023 7:20:00 AM				
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	160	60	mg/Kg	20	5/6/2023 1:48:19 AM	

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

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 4

Client: Project:	BDS Ente Plug 17	erprises							
Sample ID:	MB-74793	SampType:	MBLK	Tes	tCode: EPA Method	d 300.0: Anions			
Client ID:	PBS	Batch ID:	74793	F	RunNo: 96564				
Prep Date:	5/5/2023	Analysis Date:	5/5/2023	5	SeqNo: 3501011	Units: mg/Kg	g		
Analyte		Result PQ	SPK value	SPK Ref Val	%REC LowLimi	t HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1	.5						
Sample ID:	LCS-74793	SampType:	LCS	Tes	tCode: EPA Method	d 300.0: Anions			
Client ID:	LCSS	Batch ID:	74793	F	RunNo: 96564				
Prep Date:	5/5/2023	Analysis Date:	5/5/2023	5	SeqNo: 3501012	Units: mg/K g	g		
Analyte		Result PQ	SPK value	SPK Ref Val	%REC LowLimit	t 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 Quanitative 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 4 of 4

2305199

15-May-23

WO#:

Page 186 of 209	HALL ENVIRONMENTAL ANALYSIS LABORATORY	Albi TEL: 505-345-3975	Analysis Laboratory 4901 Hawkins NE iquerque. NM 87109 FAX: 505-345-4107 Ilenvironmental.com
	Client Name: BDS Enterprises	Work Order Number:	2305199
	Received By: Tracy Casarrubias Completed By: Tracy Casarrubias Reviewed By: JN 5/4/23	5/4/2023 7:20:00 AM 5/4/2023 8:01:47 AM	
	Chain of Custody		
	1. Is Chain of Custody complete?		Yes 🗌
	2. How was the sample delivered?		Courier
	Log In 3. Was an attempt made to cool the samples?		Yes 🔽
	4. Were all samples received at a temperature of	of >0° C to 6.0°C	Yes 🗹
	5. Sample(s) in proper container(s)?		Vac 🖌

Sample Log-In Check List

Cli	ent Name:	BDS Enter	prises	Work	Corder Num	nber: 230519	99		RcptNo	: 1
De	actual Dun	T		5 (100						
	ceived By:	Tracy Cas			23 7:20:00 A					
	mpleted By:	Tracy Cas		5/4/202	23 8:01:47 A	M				
Rev	viewed By:	Just	1/23							
<u>Cha</u>	ain of Cus	stody								
1. 1	ls Chain of C	Sustody comp	lete?			Yes 🗌	N	o 🔽	Not Present	
2. 1	How was the	e sample deliv	ered?			<u>Courier</u>				
	<u>ig In</u>									
3. V	Nas an atter	mpt made to c	cool the samp	les?		Yes 🔽	2 N	o 🗌	NA 🗌	
4. v	Vere all sam	ples received	l at a tempera	ture of >0° C	to 6.0°C	Yes 🗹) N	o 🗌	NA 🗌	
5. క	Sample(s) in	proper conta	iner(s)?			Yes 🗹) N	o 🗌		
6. S	Sufficient san	nple volume f	or indicated te	est(s)?		Yes 🗹] No			
7. A	re samples	(except VOA	and ONG) pro	operly preserv	ed?	Yes 🗹	No	b		
8. v	Vas preserva	ative added to	bottles?			Yes 🗌] No		NA 🗌	
9. R	eceived at le	east 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes 🗌	No		NA 🗹	
10. V	Vere any sa	mple containe	ers received b	roken?		Yes] N (o 🗹	# of preserved	
11.D	oes paperwo	ork match bot	ttie labels?			Yes 🗹	No		bottles checked for pH:	
			ain of custody			_			(<2 o Agjusted?	r >12 unless noted)
				n of Custody?		Yes 🗹			Aujusted?	
		it analyses we	ere requested	?		Yes 🗹 Yes 🗹			Checked by:	
		ustomer for a				Yes 🗹			-MA S	5/4/23
<u>Spec</u>	cial Handi	ling (if app	licable)							
15.V	Was client no	otified of all di	screpancies v	vith this order	?	Yes 🗌] No	•	NA 🗹	
	Person	Notified:			Date	: [
	By Who	om:			Via:	eMail	Phone] Fax	In Person	
	Regard	ling:	[No sawa Shi bi and Grakamagan						
	Client I	nstructions:	Mailing addre	ess and phone	number are	e missing on (COC- TMC 5	/4/23		
16. /	Additional re	marks:								
17. 9	Cooler Infor		Out I'll	0.0			ŝ.		Ŧ	
	Cooler No	Temp ℃ 5.1	Condition Good	Seal Intact Yes	Seal No Yogi	Seal Date	Signed	Ву		
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Received by OCD: 10/7/2024 2:20:06 PM		Page 187 of 209
Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL
Client: B bs ExterDright	Clandard Z Rush S ~ んら	ANALYSIS LABORATORY
1 E -		www.hallenvironmental.com
Mailing Address:	Plug 17	4901 Hawkins NE - Albuquerque, NM 87109
	Project #: V	Tel. 505-345-3975 Fax 505-345-4107
Phone #:	and the second sec	Analysis Request
email or Fax#: relecce a bus of Kieldicon	Project Manager:	*OS
QA/QC Package:	Pakara Dans	V MF (802 (802 (802 (802 (802 (802 (802 (802
	100) 22, 1) 270 3270 1) 270 270
Accreditation: DAZ Compliance	Dulies D. Carats, A. Parta	0 / 1 / 0 3/803 04. 1 04. 1 7 04. 1 7 04. 1 7 04. 1 0 7 04. 1 0 04. 1 0 04. 1 0 04. 1 0 04. 1 0 04. 1 0 04. 1 0 04. 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1
()	olers: 1	-VC 1-VC 310 310 510 510 510 510
	Cooler Temp(Induding CF): S-0+0.1=5.1 (°C)	15D estic by 83 yy 83 ar, 1 AO AO AO
	ervative	08:H9 81 Pa 81 Pa 81 Pa 81 Pa 82 Pa 91 Pa 92 Pa
Date Time Matrix Sample Name	# Type 23	85 85 (C) EC EC 80 80
5-3-33 9;30 50;1 BH-2 4'	Jur/1 In/001 001	12
5-2-23 9:50 5001 BH-2 6 R	Jur /1 Ice/Carl 002	
1:07 55:01	11 202/001	X
		1. A state of the state of t
	Received by: Via: Date Time	Remarks: EMACI RESUTTS
Date: Time: Relificuished by:	Via: Min MC Date Time	 7
12 Dars Order		
MUDITIVI UNALAND		

1900 Released to Imaging: 11/8/2024 1:46:09 PM



August 15, 2023

Rebecca Pons BDS Enterprises 1705 E Greene St Carlsbad, NM 88220 TEL: (575) 441-0980 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: BDS Enterprises Plug 17

2308387-001

Project: Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2308387

Date Reported: 8/15/2023

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 Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				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

Matrix: SOIL

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

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 1 of 8

CLIENT: BDS Enterprises Plug 17

2308387-002

Project:

Lab ID:

Analyses

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2308387

Date Reported: 8/15/2023

	Client Sample ID: S 522A							
	Collectio	on Date:	8/7/2	023 10:35:00 AM				
Matrix: SOIL	Receive	ed Date:	8/8/20	023 7:20:00 AM				
Result	RL Qual	Units	DF	Date Analyzed				
EL RANGE ORGANICS				Analyst: m				
ND	8.9	mg/Kg	1	8/10/2023 2:43:19 Pl				

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Ana											
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. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 2 of 8

*

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2308387

Date Reported: 8/15/2023

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 Qua	al Units	DF	Date Analyzed							
EPA METHOD 8015M/D: DIESEL RANG	E 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	46 mg/Kg		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. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 8

*

Client:	BDS Ente	erprises								
Project:	Plug 17									
Sample ID:	MB-76802	SampType: MB	LK	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 768	802	F	RunNo: 98	3905				
Prep Date:	8/10/2023	Analysis Date: 8/*	10/2023	S	SeqNo: 36	603583	Units: mg/Kg	J		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-76802	SampType: LC	s	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 768	802	F	RunNo: 98	3905				
Prep Date:	8/10/2023	Analysis Date: 8/*	10/2023	5	SeqNo: 36	603584	Units: mg/Kg	J		
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: MB	LK	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 768	804	F	RunNo: 98	3905				
Prep Date:	8/10/2023	Analysis Date: 8/*	10/2023	5	SeqNo: 36	603585	Units: mg/Kg	J		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-76804	SampType: LC	s	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 768	804	F	RunNo: 98	3905				
Prep Date:	8/10/2023	Analysis Date: 8/*	10/2023	S	SeqNo: 36	603586	Units: mg/Kg	J		
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 Quanitative 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

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2308387

15-Aug-23

WO#:

Client:

Project:

Client ID:

Prep Date:

Surr: DNOP

Analvte

Surr: DNOP

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Result

52

4.9

SampType: MS

Batch ID: 76761

Analysis Date: 8/10/2023

SampType: MSD

PQL

9.9

SPK value

49.36

4.936

SPK Ref Val

0

BDS Enterprises

Plug 17

Sample ID: 2308387-001AMS

S 528A

Sample ID: 2308387-001AMSD

Diesel Range Organics (DRO)

8/9/2023

								-	-				
Client ID: S 528A	Batch	n ID: 76	761	F	RunNo: 9	8859							
Prep Date: 8/9/2023	Analysis D	Date: 8/	10/2023	S	SeqNo: 3	601546	Units: mg/K	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit				
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	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	n ID: 76	761	F	RunNo: 9	8859							
Prep Date: 8/9/2023	Analysis D	Date: 8/	10/2023	Ş	SeqNo: 3	601553	Units: mg/K	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit				
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	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics				
Client ID: PBS	Batch	n ID: 76	761	F	RunNo: 9	8859							
Prep Date: 8/9/2023	Analysis D	Date: 8/	10/2023	S	SeqNo: 3	601556	Units: mg/K	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit				
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	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	Organics				
Client ID: LCSS	Batch	n ID: 76	771	F	RunNo: 9	8859							
Prep Date: 8/9/2023	Analysis D	Date: 8/	10/2023	Ş	SeqNo: 3	602161	Units: mg/K	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit				
Diesel Range Organics (DRO)	54	10	50.00	0	107	61.9	130						
	5.0		F 000		404		4 47						

Qualifiers:

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

5.0

в Analyte detected in the associated Method Blank

101

69

147

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range Р
- RL Reporting Limit

5.000

Page 5 of 8

WO#: 2308387

Qual

Qual

Qual

Qual

Qual

TestCode: EPA Method 8015M/D: Diesel Range Organics

Units: mg/Kg

135

147

%RPD

RPDLimit

HighLimit

TestCode: EPA Method 8015M/D: Diesel Range Organics

RunNo: 98859

%REC

105

98.3

SeqNo: 3601545

LowLimit

54.2

69

15-Aug-23

Client: BDS En	nterprises									
Project: Plug 17	,									
Sample ID: MB-76771	D: MB-76771 SampType: MBLK					PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 767	771	F	RunNo: 98	3859				
Prep Date: 8/9/2023	Analysis D	Date: 8/ *	10/2023	SeqNo: 3602162			Units: mg/K	g		
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 Quanitative 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

WO#: 2308387 15-Aug-23

Client:	BDS Ente	erprises									
Project:	Plug 17										
Sample ID: Ics-76	6742	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	5	Batch	ID: 767	742	F	RunNo: 98	3834				
Prep Date: 8/8/2	2023	Analysis D	ate: 8/	9/2023	S	SeqNo: 36	602041	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organ	ics (GRO)	21	5.0	25.00	0	83.4	70	130			
Surr: BFB		2000		1000		196	15	244			
Sample ID: mb-7	6742	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: PBS		Batch	ID: 767	742	F	RunNo: 98	3834				
Prep Date: 8/8/2	2023	Analysis D	ate: 8/	9/2023	S	SeqNo: 36	602042	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organ	ics (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 Quanitative 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

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15-Aug-23

2308387

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	BDS Ente	rprises											
Project:	Plug 17												
Sample ID: LCS-	76742	Samp ⁻	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	les				
Client ID: LCS	S	Batc	h ID: 767	742	RunNo: 98834								
Prep Date: 8/8/	2023	Analysis [Date: 8/ 9	9/2023	023 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-Bromofluoro	benzene	1.1		1.000		108	39.1	146					
Sample ID: mb-7	6742	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	les				
Client ID: PBS		Batc	h ID: 767	742	F	RunNo: 9	8834						
Prep Date: 8/8/	2023	Analysis [Date: 8/ 9	9/2023	S	SeqNo: 3	602075	Units: mg/K	g				
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-Bromofluoro	benzene	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 Quanitative 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

WO#:	2308387
	15 4 22

15-Aug-23

HALL ENVIRONMENTA ANALYSIS LABORATORY	L	Hall Environmental Albi TEL: 505-345-3975 Website: www.ha	490 iquerq FAX:	91 Hawk nue. NM 505-34.	tins NE 87109 5-4107	San	nple Log-In (Chec	k List
Client Name: BDS Enterpr	ises	Work Order Number:	230	8387			ReptNo): 1	
Received By: Steve McQu Completed By: Tracy Casa Reviewed By: 7N 6-15-12	rrubias	8/7/2023 4:25:00 PM 8/8/2023 8:12:12 AM			Ha.	Make	-		
Chain of Custody									
1. Is Chain of Custody comple	te?		Yes	\checkmark	No		Not Present		
2. How was the sample deliver	red?		Cou	<u>rier</u>					
Log In 3. Was an attempt made to co	ol the samples?		Yes		No		NA 🗌		
4. Were all samples received a	at a temperature of	>0° C to 6.0°C	Yes		No		NA 🗌		
5. Sample(s) in proper contain	er(s)?		Yes		No				
6. Sufficient sample volume for	r indicated test(s)?		Yes	\checkmark	No				
7. Are samples (except VOA a	nd ONG) properly	preserved?	Yes		No				
8. Was preservative added to t	pottles?		Yes		No		NA 🗌		
9. Received at least 1 vial with	headspace <1/4"	or AQ VOA?	Yes		No		NA 🔽		
10. Were any sample container	s received broken?	?	Yes		No		# of preserved bottles checked		
11. Does paperwork match bottl (Note discrepancies on chai			Yes		No		for pH:	or >12 u	nless noted)
12 Are matrices correctly identi		ustody?	Yes		No		Adjusted?		. 1
13. Is it clear what analyses wer	e requested?		Yes	\checkmark	No		4	'nΩ	nalmaha
14. Were all holding times able (If no, notify customer for au			Yes	\checkmark	No		Checked by	UI	00/00/0
Special Handling (if appl	licable)								
15. Was client notified of all dis	crepancies with th	is order?	Yes		No	b	NA 🗹		
Person Notified:		Date:		almada atarte in					
By Whom:		Via: [eM	ail 🗌	Phone] Fax	In Person		
Regarding:						and internet			
Client Instructions:									
16. Additional remarks:									
17. <u>Cooler Information</u> Cooler No Temp °C	Condition Sea	l Intact Seal No	Seal C	ate	Signed	l By			
1 3.0	Good Yes	Morty							

Released to Imaging: 11/8/2024 1:46:09 PM

Page 197 of 209

Page 198 of 209	HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109		I el. 202-342-39/3 Fax 202-343-4 IU/ Analysis Request		0 / DRG /8082 F 01.1) 07 S270 7, I 7, S270 7, I 7, S270	(GR aldes 310 d 310 d 3, 10 d 10 d 3, 10 d 10 d 10 d 10 d 10 d 10 d 10 d 10 d	detic estic by 83 8 Me 8 Me 8 Me 8 Me 8 Me 8 Me	ВТЕХ (PH30 8081 P PAHs P PAHs P PAHs P PAHs P PAHs P P PAHs P P P P P P P P P P P P P P P P P P P				[14] M. M. Manakara, M. M. Manakara, M. Manakar Manakara, M. Manakara, M Manakara, M. Manakara, M Manakara, M. Manakara, M Manakara, M. Manakara, M. Manaka Manakara, M. Manakara, M. Manakar Manakara, M. Manakara, M. Manaka Manakara, M. Manakara, Manakara, M. Manakara, M. Manakara, M. Manakara, M. Man					Remarks:	C730
	Time	Proiod Name:	Mug. M	Project #:	A set of the set of th	Project Manager:	Sampler:	olers: 1	Cooler Temp(Including CF): 3.6~0 = 3.0 (Container Preservative HEAL No. Type and # Type	T.Ce		V V 003						Via: Date 7	Received by: Vigiter Date Time
Received by OCD: 10/7/2024 2:20:06 PM	F-Custody Record	CA C	Mailing Address: DOX Cu on 15-1		Phone #: 575 247-1106	Fax#: (Circen 28 DS D. f. oc) , con	Az Compliance Active A (rule valuation)			Date Time Matrix Sample Name	10-30 COV 6538A	VPCS S	V 10:40 5 530 V	Tark AN	200				Retriction by:	Date: Time: Relinquished by:

Released to Tangards 17/8/2024 1:46:09/2014 1:46:09/2017 4:46:00/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46:09/2017 4:46 CULA 10001

Scm



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Appendix VI

Correspondence

jamesc@bdsoilfield.com

From:	Taylor, Shelly J <sjtaylor@blm.gov></sjtaylor@blm.gov>
Sent:	Tuesday, May 23, 2023 12:56 PM
То:	jamesc@bdsoilfield.com
Cc:	'BDS'
Subject:	Re: [EXTERNAL] Plug 17

You are cleared to proceed with remedial activties.

Sincerely,

Shelly G 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 <u>sjtavlor@blm.gov</u>

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></sjtaylor@blm.gov>
Sent:	Tuesday, May 23, 2023 12:57 PM
То:	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 G 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 <u>sjtavlor@blm.gov</u>

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 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	390489
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS Drorogulaitaa

r reiednisines	
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. Cause: Human Error | Valve | Produced Water | Released: 144 BBL | Recovered: 60 BBL | Produced Water Released (bbls) Details 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 Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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QUESTIONS, Page 2

Action 390489

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	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.
ſ	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
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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.	
	liation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of sted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com	

Date: 10/07/2024

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QUESTIONS, Page 3

Action 390489

QUESTIONS (continued)	
	OGRID:
	5380

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	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 ar	d 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 CI 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 (EPA SW-846 Method 8021B or 8260B) Benzene 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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(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)

Ground Water Abatement pursuant to 19.15.30 NMAC

OTHER (Non-listed remedial process)

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(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)

which includes the anticipated timelines for beginning and completing the remediation.

ant In addition OCD ass

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QUESTIONS, Page 4

Action 390489

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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) Please answer all the questions that apply or are indicated. This information must be provided to the This remediation will (or is expected to) utilize the following processes to remediate		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	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.	

Not answered.

Not answered.

Not answered.

Not answered. 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,

ator of responsibility for

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
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in acco	ordance with the physical realities encountered during remediation. If the responsible party has any need to

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

intance of a C-1/1 report does not relieve the

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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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	
Defermed Demusete Only	

Deletral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 390489

QUESTIONS (continued) Operator: OGRID: XTO ENERGY, INC 5380 6401 Holiday Hill Road Action Number: Midland, TX 79707 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

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. "
mprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field al sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC. Thereby certify that the information given above is true and complete to the best of my report and/or file certain release notifications and perform corrective actions for release o CDD does not relieve the operator of liability should their operations have failed to ater, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required isses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed

I hereby agree and sign off to the above statement	Name: Colton Brown
I hereby agree and sign off to the above statement	Title: Environmental Advisor
	Email: colton.s.brown@exxonmobil.com
	Date: 10/07/2024

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QUESTIONS, Page 7

Action 390489

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QUESTIONS (continued) Operator: OGRID: XTO ENERGY, INC 5380 6401 Holiday Hill Road Action Number: Midland, TX 79707 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: OGRID: **XTO ENERGY, INC** 5380 6401 Holiday Hill Road Action Number: Midland, TX 79707 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