Location:	Remuda 4-24-30 CTB		
Spill Date:	11/20/2022		
	Area 1		
Approximate A	rea =	1906.00	sq. ft.
Average Satura	tion (or depth) of spill =	2.00	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	9.70	bbls
	TOTAL VOLUME OF LEAK		
Total Crude Oi	=	0.00	bbls
Total Produced	Water =	9.70	bbls
	TOTAL VOLUME RECOVERED		
Total Crude Oi	=	0.00	bbls
Total Produced	Water =	8.00	bbls



March 24, 2025

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

Re: Closure Request Addendum Remuda Basin 4-24-30 CTB

Incident Number NAPP2233351770

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request Addendum* to present additional remediation activities completed at the Remuda Basin 4-24-30 CTB (Site), in response to the denial of the original *Closure Request*, submitted to the New Mexico Oil Conservation Division (NMOCD) on May 19, 2023. In the denial, NMOCD indicated that an inadequate number of confirmation sidewall soil samples were collected. Based on soil sampling activities described below, XTO is submitting this *Closure Request Addendum* and requesting no further action for Incident Number NAPP2233351770.

BACKGROUND

The Site is located in Unit A, Section 4, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.253334°, -103.881797°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 20, 2022, internal corrosion caused a pinhole to developed on a produced water flowline check valve, resulting in the release of 9.70 barrels (bbls) of produced water into a lined containment and on to the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; and 8.00 bbls were recovered. A 48-hour advance notice of liner inspection was provided via email to the NMOCD. A liner integrity inspection was conducted by XTO personnel following the fluid recovery and upon inspection, the liner was determined to be insufficient. XTO submitted a Release Notification Form C-141 (Form C-141) on November 29, 2022. The release was assigned Incident Number NAPP2233351770.

The Closure Request detailed the Site characterization completed 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 in the original *Closure Request*, submitted May 19, 2023. Potential Site receptors are identified on Figure 1.

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XTO Energy, Inc Remuda Basin 4-24-30 CTB Closure Request Addendum

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

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

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

TPH: 2,500 mg/kg

Chloride: 20,000 mg/kg

Between January 9 and February 22, 2023, Ensolum conducted Site assessment, delineation, and excavation activities in response to the release. XTO submitted a *Closure Request* on May 19, 2023, requesting no further action (NFA) following delineation of the release and excavation of all soil exceeding the Closure Criteria and/or the reclamation requirement. Delineation samples were collected from the release as shown on Figure 2. Confirmation samples were collected from the excavation as shown on Figure 3. All previously completed remedial activities can be found in the original *Closure Request* included in Appendix A. On June 26, 2023, NMOCD denied the *Closure Request* for Incident Number NAPP2233351770 for the following reasons:

Closure rejected. Per 19.15.29.12 D (1) The responsible party must test the remediated areas for contamination with representative five-point composite samples from the walls and base, and individual grab samples from any wet or discolored areas. The samples must be analyzed for the constituents listed in Table I of 19.15.29.12 NMAC or constituents from other applicable remediation standards. Side wall samples located in the areas of FS01 through FS03 were not collected therefore, lateral delineation of this area has not been completed. Delineation samples will need to be collected in this area prior to the release being closed. Samples will need to be analyzed for all constituents listed in Table 1 and enough samples will need to be collected to fully define the lateral extents of the release. Minimal impacts found beneath the liner are above the reclamation standard for TPH. These impacts will need to be addressed at plugging and abandonment or during a major facility reconstruction, whichever comes first.

CONFIRMATION SOIL SAMPLING ACTIVITIES

On December 19, 2024, Ensolum personnel returned to the Site to collect additional sidewall samples on the southern edge of the previously existing excavation. Five-point composite soil samples (SW05 through SW07) were collected representing areas no more than 200 square feet from the sidewalls of the previous excavation at depths ranging from the ground surface to 1-foot bgs. 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.

The confirmation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. All confirmation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500. The release extent, excavation extent, and confirmation soil sample locations are presented on Figure 4.



XTO Energy, Inc. Remuda Basin 4-24-30 CTB Closure Request Addendum

Laboratory analytical results for all confirmation soil samples collected indicated all COC concentrations were in compliance with the most stringent Table I Closure Criteria. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix C.

As previously reported, the excavation area measured approximately 1,993 square feet. A total of 140 cubic yards of impacted soil were removed from the Site. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico. The excavation has been backfilled with material purchased locally and the Site has been recontoured to match pre-existing site conditions.

CLOSURE REQUEST

Additional soil sampling activities were conducted at the Site to address the November 20, 2022, produced water release and June 26, 2023 NMOCD denial. Laboratory analytical results from all confirmation samples, collected from the final excavation extent, indicated that all COC concentrations were in compliance with the Closure Criteria. Based on soil sample analytical results, no further remediation is required. The excavation was backfilled with material purchased locally and the surface recontoured to match pre-existing Site conditions.

Excavation of impacted soil 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 NAPP2233351770.

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

Sincerely,

Ensolum, LLC

Hadlie Green

Project Geologist

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

Principal

Kaylan Dirkx, XTO CC:

Colton Brown, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

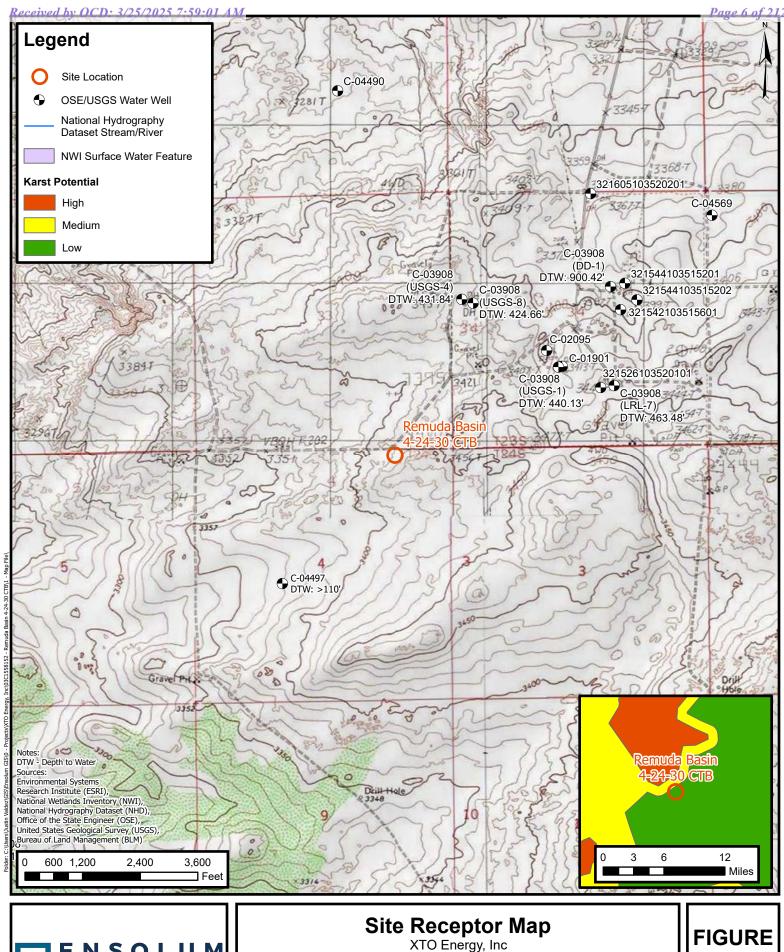
Figure 2 **Delineation Soil Sample Locations** Figure 3 **Excavation Soil Sample Locations** Figure 4 Confirmation Soil Sample Locations Table 1 Soil Sample Analytical Results Closure Request; May 19, 2023 Appendix A

Appendix B Photographic Log

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

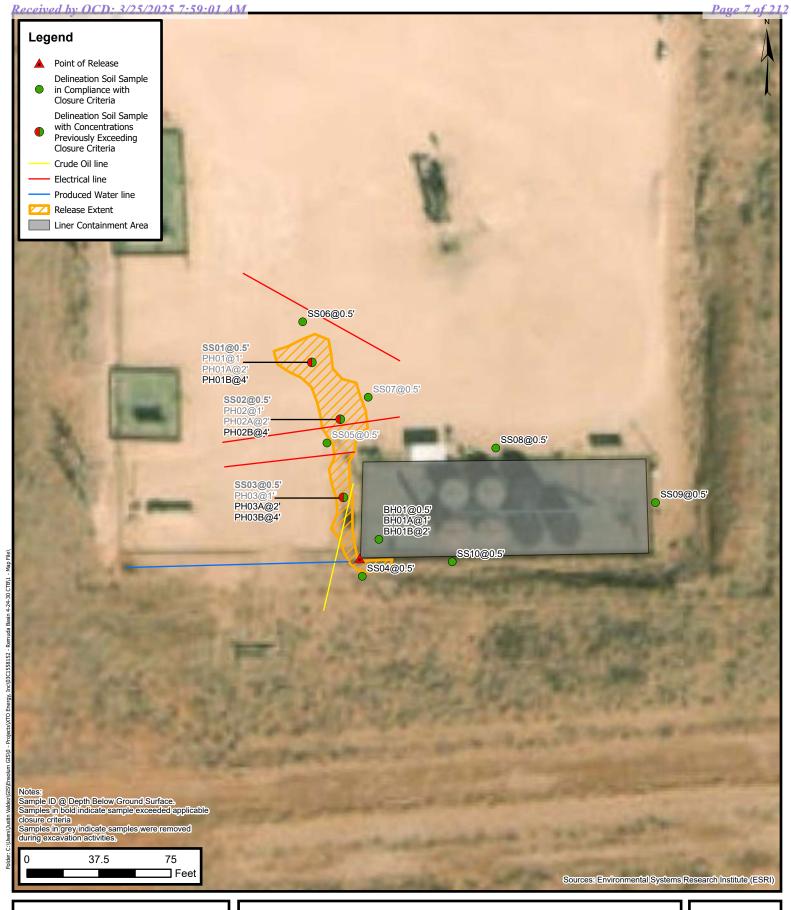


FIGURES





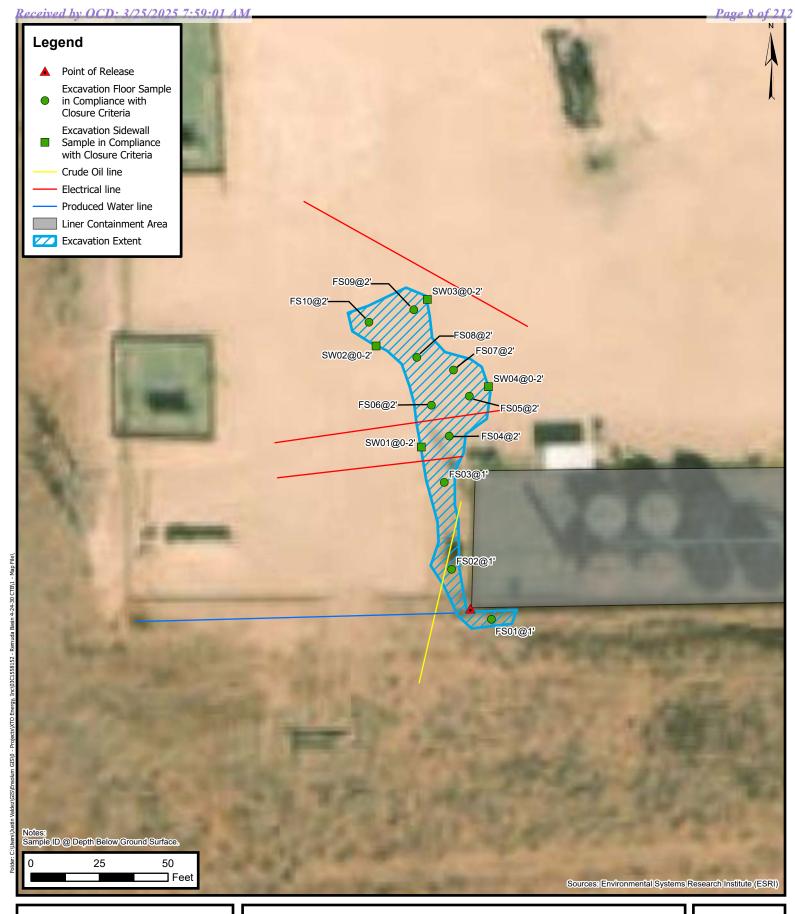
Remuda Basin 4-24-30 CTB Incident Number: NAPP2233351770 Unit A, Sec 4, T24S, R30E Eddy County, New Mexico





Delineation Soil Sample Locations

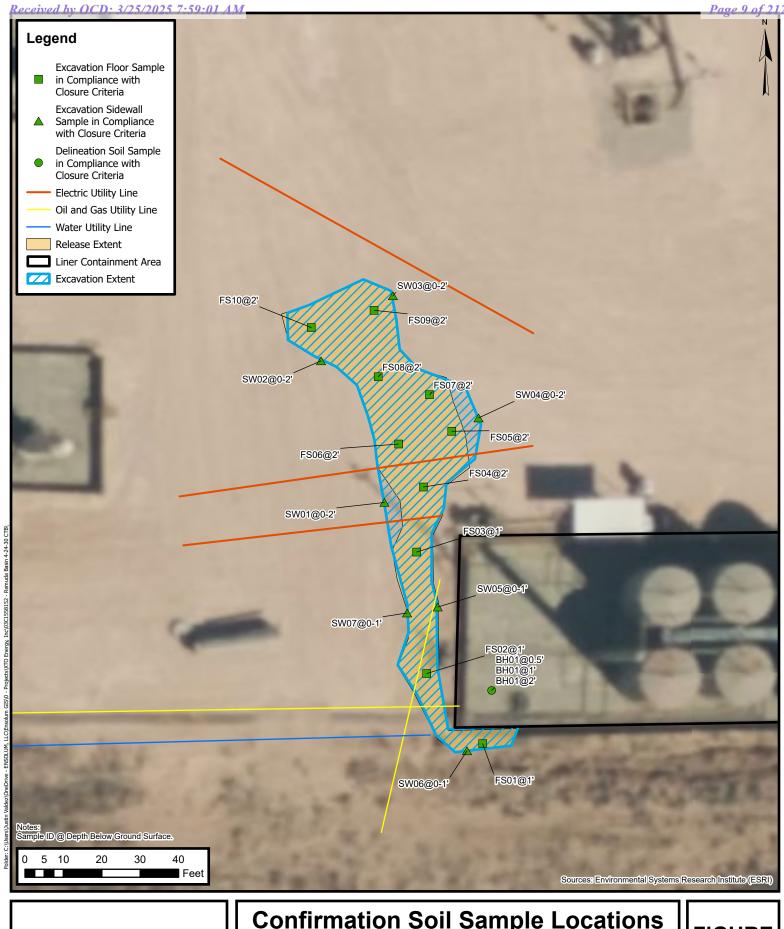
XTO Energy, Inc Remuda Basin 4-24-30 CTB Incident Number: NAPP2233351770 Unit A, Sec 4, T24S, R30E Eddy County, New Mexico FIGURE 2





Excavation Soil Sample Locations

XTO Energy, Inc Remuda Basin 4-24-30 CTB Incident Number: NAPP2233351770 Unit A, Sec 4, T24S, R30E Eddy County, New Mexico FIGURE 3





Confirmation Soil Sample Locations

XTO Energy, Inc. Remuda Basin 4-24-30 CTB Incident Number: NAPP2233351770 Unit A, Sec 4, T 24S, R 30E Eddy County, New Mexico

FIGURE 4



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Remuda Basin 4-24-30 CTB 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	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Deli	neation Soil Sa	mples				
SS01	01/09/2023	0.5	2.48	4.23	2,670	10,100	1,770	12,770	14,540	176
PH01	01/16/2023	4	<0.00201	0.130	<49.9	<49.9	<49.9	<49.9	<49.9	8.86
PH01A	01/16/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
PH01B	01/16/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<5.03
SS02	01/09/2023	0.5	4.73	96.6	2,610	8,700	1,350	11,310	12,660	211
PH02	01/16/2023	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	10.7
PH02A	01/16/2023	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	11.1
PH02B	01/16/2023	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	15.0
SS03	01/09/2023	0.5	0.0152	15.9	1,050	9,580	1,200	10,630	11,830	63.8
PH03	01/16/2023	4	<0.00201	0.0312	<49.9	82.3	<49.9	82.3	82.3	31.8
PH03A	01/16/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	24.3
PH03B	01/16/2023	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	13.5
SS04	01/16/2023	0.5	<0.00200	<0.00401	<49.9	58.6	<49.9	58.6	58.6	70.8
SS05	01/16/2023	0.5	<0.00200	<0.00399	<49.8	169	<49.8	169	169	190
SS06	01/16/2023	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	82.6
SS07	01/16/2023	0.5	<0.00199	<0.00398	<49.8	212	<49.8	212	212	195
SS08	01/16/2023	0.5	<0.00199	<0.00398	<49.9	70.9	<49.9	70.9	70.9	215
SS09	01/16/2023	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	81.6
SS10	01/16/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	50.1
BH01	01/16/2023	0.5	<0.00200	<0.00401	<49.9	186	<49.9	186	186	470
BH01A	01/16/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	337
BH01B	01/16/2023	2	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	59.5

Ensolum 1 of 2



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Remuda Basin 4-24-30 CTB 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	1,000	2,500	20,000
				Confi	irmation Soil Sa	amples				
FS01	02/21/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	86.9
FS02	02/21/2023	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	22.6
FS03	02/21/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	11.9
FS04	02/21/2023	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	18.7
FS05	02/21/2023	2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	30.1
FS06	02/21/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	44.9
FS07	02/21/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	20.0
FS08	02/21/2023	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	13.0
FS09	02/21/2023	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	12.1
FS10	02/21/2023	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	20.1
SW01	02/21/2023	0-2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	27.3
SW02	02/21/2023	0-2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	7.04
SW03	02/21/2023	0-2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	25.1
SW04	02/21/2023	0-2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	22.7
SW05	12/19/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW06	12/19/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW07	12/19/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria

NMAC: New Mexico Administrative Code

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Closure Request; May 19, 2023



May 17, 2023

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

Re: Closure Request

Remuda Basin 4-24-30 CTB

Incident Number NAPP2233351770

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc (XTO), has prepared this *Closure Request* to document assessment and soil sampling activities performed at the Remuda Basin 4-24-30 Central Tank Battery (CTB; Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a produced water release. Based on field observations and laboratory analytical results, XTO is submitting this *Closure Request* describing Site assessment and excavation activities that have occurred and requesting no further action for Incident Number NAPP2233351770.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 4, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.25359°, -103.88134°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 20, 2022, internal corrosion caused a pinhole to developed on a produced water flowline check valve, resulting in the release of 9.70 barrels (bbls) of produced water into a lined containment and on to the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; and 8.00 bbls were recovered. A 48-hour advance notice of liner inspection was provided via email to the New Mexico Oil Conservation Division (NMOCD). A liner integrity inspection was conducted by XTO personnel following the fluid recovery and upon inspection, the liner was determined to be insufficient. XTO submitted a Release Notification Form C-141 (Form C-141) on November 29, 2022. The release was assigned Incident Number NAPP2233351770.

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 on page 3 of the Form C-141, Site Assessment/Characterization.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On December 28, 2020, a soil boring permitted by New Mexico Office of the State Engineer (OSE file number C-4497) was completed slightly greater than ½ mile (approximately 3,009 feet) southwest of the Site location utilizing

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

Remuda Basin 4-24-30 CTB

a truck-mounted hollow-stem auger rig. Soil boring C-4497 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 borehole 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 Log is included in Appendix A. Although the NMOCD prefers water well data for estimating depth to water be no more than 1/2 mile away, NMOCD's Procedures for Implementation of the Spill Rule, dated September 6, 2019, indicates NMOCD will consider information that does not meet that preference on a case-by-case basis. In this instance, the water well is only a few feet outside the ½-mile preference. In addition, there are a significant number of water wells in the opposite direction of the Site with similar depth to groundwater results. A report from the United States Department of Energy (DOE) regarding Project Gnome-Coach includes recent groundwater elevation measurements at four monitoring wells (identified as C-03908 in the OSE database and on Figure 1). All wells contain water greater than 400 feet deep. A summary of groundwater levels for wells associated with C-03908 is provided in Appendix A. The full report, 2022 Groundwater Monitoring and Inspection Report Gnome-Coach dated March 2023, can be located on the DOE Legacy Management website. All existing data from water wells to the northeast are consistent with that information. This regional data, which is just outside the ½-mile distance preference, supports the estimate for depth to groundwater being greater than 100 feet.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 5,372 feet north 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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

Between January 9, and January 16, 2023, Site assessment and delineation activities were conducted to evaluate the release extent based on information provided on the Form C-141. Seven delineation soil samples (SS01 through SS07) were collected within and around the release extent at a depth of 0.5 feet bgs. Three lateral delineation soil samples (SS08 through SS10) were collected at a depth of 0.5 feet bgs to confirm the release did not extend outside the lined containment towards the north, south, or east. One borehole (BH01) was advanved by use of hand auger at the location of the tear in the liner identified during the liner integrity inspection. Three potholes (PH01 through PH03) were advanced by use of heavy equipment in the vicinity of soil samples SS01 through SS03, respectively. Discrete delineation soil samples were collected in the borehole and all potholes from depths ranging from 0.5 feet to 4 feet bgs. Delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field



Remuda Basin 4-24-30 CTB

screening results and observations from the borehole and potholes were documented on lithologic/soil sampling logs, which are included as Appendix B. Borehole BH01 was backfilled with the soil removed and XTO repaired the tear in the liner. The liner containment, release extent, and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit and a photographic log is included in Appendix C.

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 Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they were collected may not have equilabrated to 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

EXCAVATION ACTIVITIES

Between January 16, and February 22, 2023, Ensolum personnel oversaw excavation activities. Soil was excavated from the release extent in the area represented by delineation soil samples SS01 through SS03, SS05, and SS07 which contained elevated TPH concentrations. Excavation activities were performed by use of heavy equipment and hydrovacuum. To direct excavation activities, Ensolum personnel field screened soil as described above.

Following removal of soil, Ensolum personnel collected 5-point composite soil samples representing up to 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS10 were collected from the floor of the excavation at depths ranging from 1-foot to 2 feet bgs. Composite soil samples SW01 through SW04 were collected from the sidewalls of the excavation from ground surface to 2 feet bgs. The sidewalls were included in composite soil samples FS01 through FS03 due to the shallow nature of the excavation in these areas. The excavation soil samples were field screened, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 1,993 square feet. A total of approximately 140 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS03 indicated TPH concentrations exceed the Site Closure Criteria. All other delineation and excavation soil samples collected indicated COC concentrations were compliant with the Closure Criteria. This includes borehole BH01, which was advanced within the lined containment area. All lateral and vertical delineation samples were compliant with the reclamation requirement. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.



CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to assess for the presence or absence of impacted soil from the November 20, 2022 release of produced water into the lined containment and onto the ground surface. Following the failed liner integrity inspection at the Site, Ensolum personnel advanced borehole BH01 at the location of the tear in the liner to assess for the potential for impacts underlying the liner containment. Lateral soil samples SS08 through SS10 were collected north, south, and east of the containment area. Laboratory analytical results for BH01 and SS08 through SS10 indicated all COC concentrations were in compliance with the Closure Criteria and provide vertical and lateral delineation to the strictest Table I Closure Criteria. Excavation activities were completed based on laboratory analytical results for delineation soil samples SS01 through SS03, SS05, and SS07 which indicated elevated TPH concentrations. All excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Based on the soil sample analytical results, no further remediation was required. The tear in the liner was subsequently repaired and the excavation was backfilled on May 3, 2023, with material purchased locally and the Site was recontoured to match pre-existing site conditions.

Excavation of impacted soil 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. Based on initial response efforts, soil sample laboratory analytical results, and excavation of impacted soil, XTO respectfully requests closure for Incident Number NAPP2233351770.

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

Ashley L. ager

Principal

Ashley L. Ager, MS, PG

Sincerely, **Ensolum, LLC**

Benjamin J. Belill Project Geologist

cc: Garrett Green, XTO

Shelby Pennington, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Appendix B Lithologic Soil Sampling Logs

Appendix C Photographic Log

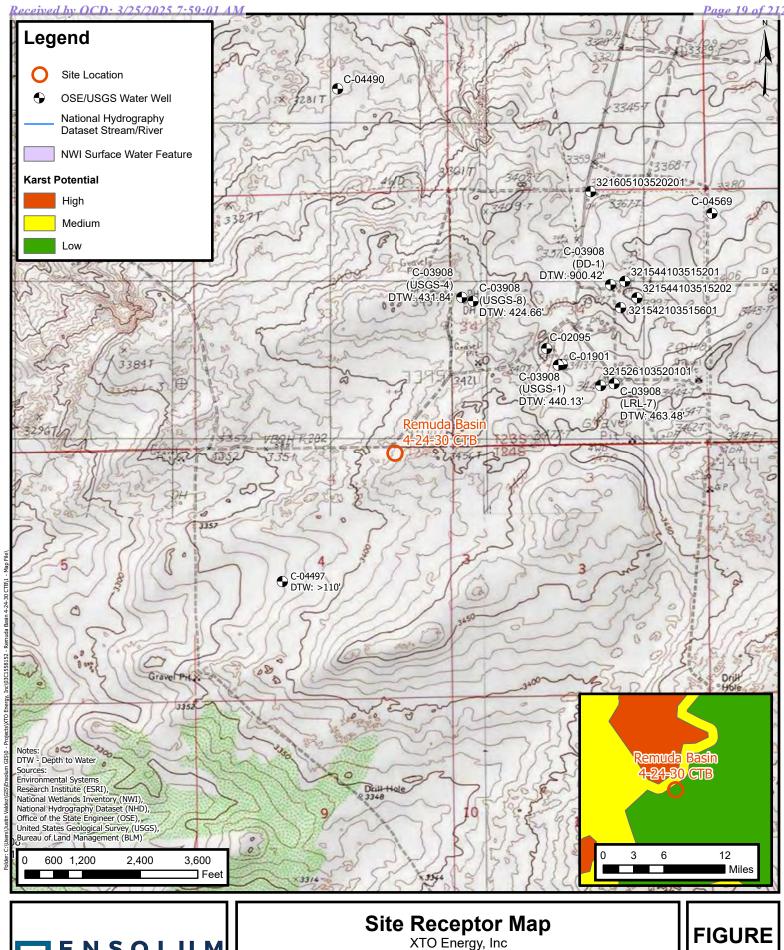
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Sample Notification



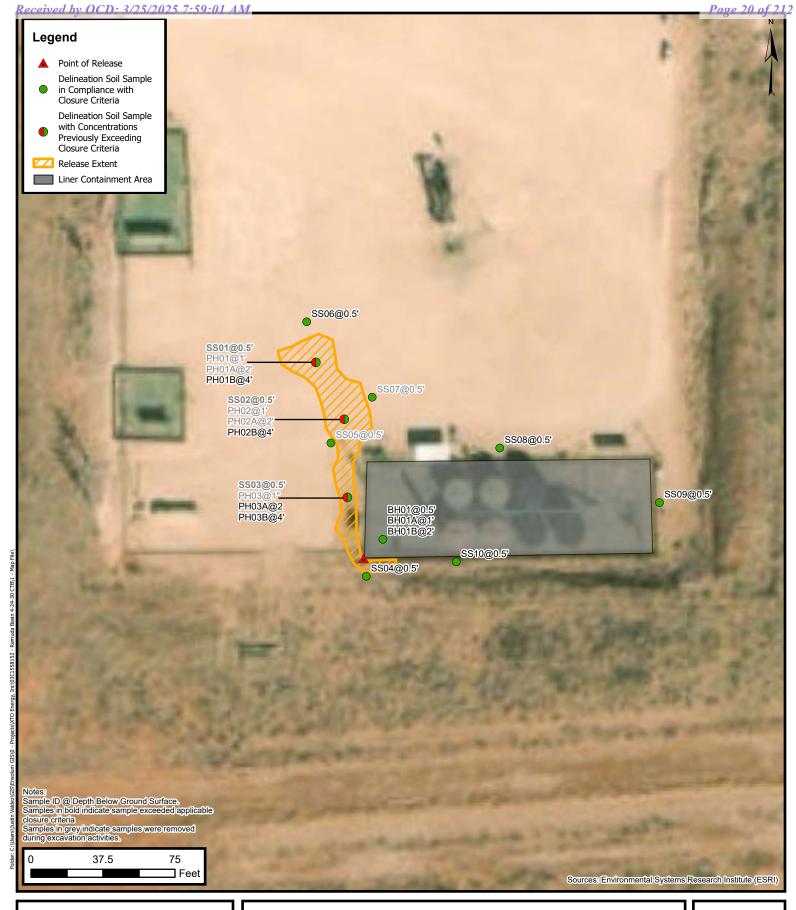


FIGURES





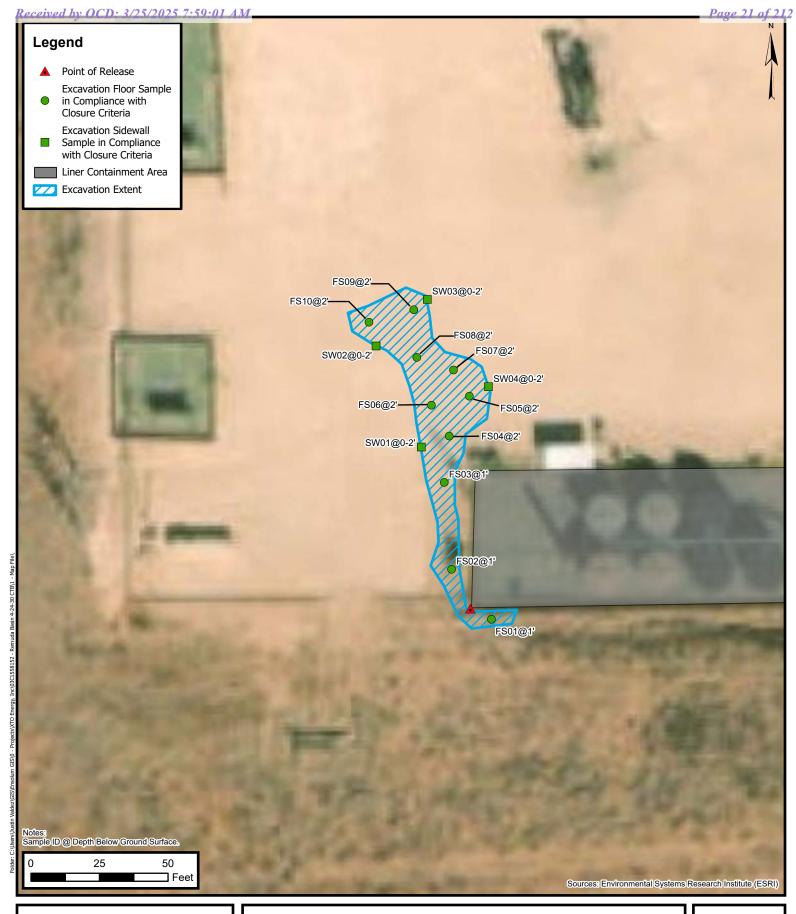
Remuda Basin 4-24-30 CTB Incident Number: NAPP2233351770 Unit A, Sec 4, T24S, R30E Eddy County, New Mexico





Delineation Soil Sample Locations

XTO Energy, Inc Remuda Basin 4-24-30 CTB Incident Number: NAPP2233351770 Unit A, Sec 4, T24S, R30E Eddy County, New Mexico FIGURE 2





Excavation Soil Sample Locations

XTO Energy, Inc Remuda Basin 4-24-30 CTB Incident Number: NAPP2233351770 Unit A, Sec 4, T24S, R30E Eddy County, New Mexico FIGURE 3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Remuda Basin 4-24-30 CTB 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 Clo	osure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delir	neation Soil Sar	nples				
SS01	01/09/2023	0.5	2.48	4.23	2,670	10,100	1,770	12,770	14,540	176
PH01	01/16/2023	4	<0.00201	0.130	<49.9	<49.9	<49.9	<49.9	<49.9	8.86
PH01A	01/16/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
PH01B	01/16/2023	4	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<5.03
SS02	01/09/2023	0.5	4.73	96.6	2,610	8,700	1,350	11,310	12,660	211
PH02	01/16/2023	4	<0.00199	<0.00398	<50.0	<50.0	< 50.0	<50.0	<50.0	10.7
PH02A	01/16/2023	2	<0.00200	<0.00399	<49.9	<49.9	<4 9.9	<49.9	<49.9	11.1
PH02B	01/16/2023	4	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	15.0
SS03	01/09/2023	0.5	0.0152	15.9	1,050	9,580	1,200	10,630	11,830	63.8
PH03	01/16/2023	4	<0.00201	0.0312	<49.9	82.3	<49.9	82.3	82.3	31.8
PH03A	01/16/2023	2	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	24.3
PH03B	01/16/2023	4	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	13.5
SS04	01/16/2023	0.5	<0.00200	<0.00401	<49.9	58.6	<49.9	58.6	58.6	70.8
SS05	01/16/2023	0.5	<0.00200	<0.00399	<49.8	169	<49.8	169	169	190
SS06	01/16/2023	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	82.6
SS07	01/16/2023	0.5	<0.00199	<0.00398	<49.8	212	<49.8	212	212	195
SS08	01/16/2023	0.5	<0.00199	<0.00398	<49.9	70.9	<49.9	70.9	70.9	215
SS09	01/16/2023	0.5	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	81.6
SS10	01/16/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	50.1
BH01	01/16/2023	0.5	<0.00200	<0.00401	<49.9	186	<49.9	186	186	470
BH01A	01/16/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	337
BH01B	01/16/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	59.5
				Confi	rmation Soil Sa	mples				
FS01	02/21/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	86.9
FS02	02/21/2023	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	22.6
FS03	02/21/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	11.9
FS04	02/21/2023	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	18.7
FS05	02/21/2023	2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	30.1
FS06	02/21/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	44.9
								1	+	+
FS07	02/21/2023	2	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	20.0

Ensolum 1 of 2



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Remuda Basin 4-24-30 CTB XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	1,000	2,500	20,000	
FS09	02/21/2023	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	12.1
FS10	02/21/2023	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	20.1
SW01	02/21/2023	0-2	<0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	27.3
SW02	02/21/2023	0-2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	7.04
SW03	02/21/2023	0-2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	25.1
SW04	02/21/2023	0-2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	22.7

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

Ensolum 2 of 2



APPENDIX A

Referenced Well Records

OSE DII JAN 28 2021 PM4:24

_	OSE POD NO)		WELL TAG ID NO.			OSE FILE NO	S).			
ğ	POD1 (B)	H-VI)			n/a			C-4497				
AT	WELL OWN			•				PHONE (OPTI	ONAL)			
Ö	XTO Energ	gy (Kyle L	Littrell)									
Ţ	WELL OWN	ER MAILING	ADDRESS					CITY		STATE		ZIP
Æ	6401 Holid	lay Hill D	г.					Midland		TX	79707	
D V			DE .	GREES	MINUTES	SECON	TO C	I				
¥	WELL		DE	32°	14'	46.6	O!	* * * * * * * * * * * * * * * * * * * *	REQUIRED: ONE TEN	ET OF A C	POOND.	
₹	LOCATIO	140.4	TITUDE				N		QUIRED: WGS 84	In or A s	ECOND	
GENERAL AND WELL LOCATION	(FROM GP	LON	NGITUDE	-103°	53'	20.4	6" W	* DATUM REC	QUIRED: WGS 64			
3	DESCRIPTION	ON RELATIN	IG WELL LOCATION TO	STREET ADDR	ESS AND COMMON	LANDM/	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVA	ILABLE	
-	NE SW Se	c. 4 T24S	R30E									
			·									
	LICENSE NO		NAME OF LICENSED		ackie D. Atkins				NAME OF WELL DRI			
											Associates, I	
	DRILLING S		DRILLING ENDED		MPLETED WELL (FT			IOLE DEPTH (FT) DEPTH WATER FIRST ENCOUNTERED (FT)				
	12/28/	2020	12/28/2020	tempor	ary well materia	ıl		110		n/a		
	CONTRACTOR	D WELL 10.	C ADDRESS AND	C PRIVIO				STATIC WATER LEVEL IN COMPLETED WELL (FT)				
Z	COMPLETE	D WELL IS:	ARTESIAN	DRY HOL	E SHALLOV	W (UNCO	NFINED)	•		n/a		
OL	DRILLING F	LUID:	✓ AIR	☐ MUD	ADDITIVI	ES – SPEC	IFY:		***************************************		•	
2. DRILLING & CASING INFORMATION	DRILLING M	ETHOD:	ROTARY	HAMMER	CABLE TO	OOL	✓ OTHE	R - SPECIFY:	Hollo	w Stem	Auger	
Ĭ.	DEPTH	(feet bgl)		CASING	MATERIAL AND	O/OR		•				
Ü	FROM	то	BORE HOLE DIAM		GRADE			ASING NECTION	CASING INSIDE DIAM.		NG WALL CKNESS	SLOT SIZE
Ž	1110111		(inches)		ach casing string,		Т	YPE	(inches)	(inches)		(inches)
Š	0	110	±8.5	 	sections of screen) Boring- HSA		(add coupl	ling diameter)	(=====,			
જ				•								
Ž	<u></u>											-
									<u> </u>			
2												
7				1								
							 					ļ
		•								<u> </u>		
									<u> </u>			
		<u> </u>		<u> </u>						<u> </u>		<u> </u>
_	DEPTH	(feet bgl)	BORE HOLE	1	ST ANNULAR SE				AMOUNT		метно	
IVI	FROM	то	DIAM. (inches)	GRA	VEL PACK SIZE-	RANGE	BY INTE	RVAL	(cubic feet)		PLACEM	MENT
ER	-											
[A]												
R												
ANNULAR MATERIAL								, - <u> </u>				
Z												
3. A				 								
•••												
	<u>. </u>			1					1			

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/30/17) FILE NO. POD NO. TRN NO. T245 LOCATION WELL TAG ID NO. PAGE 1 OF 2

					· · · · · · · · · · · · · · · · · · ·	
	DEPTH (f	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	1.5	1.5	CALICHE, poor-moderate consolidation, few sand, fine grain, light brown	, dry Y 🗸 N	
	1.5	5	3.5	SAND, well graded, fine grain, few gravel, sub angular, 2-8mm. Red/brown	n, dry Y 🗸 N	
	5	16	11	SAND, fine grain, poorly graded, few gravel, some clay, red/brown, mo	ist Y ✓ N	
	16	85	69	SAND, well graded, large grain, little clay, noncohesive,, red/brown, mo	ist Y ✓ N	
	85			SANDSTONE, very poorly consolidated, medium-fine grain, well grade	ed, Y ✔N	
Ţ		105	20	few caliche gravel, sub angular, 1.5-7mm, light brown - almond brown, m	oist Y ✓ N	
HYDROGEOLOGIC LOG OF WELL	105			SANDSTONE, highly consolidated, medium-fine grain, poorly graded	, Y √ N	
OF		110	5	few clay, low plasticity, noncohesive, light brown-almond brown, dry	Y VN	
90°					Y N	
ICI					Y N	
507					Y N	
EOI					Y N	
ROG					Y N	
EX.	,		-		Y N	
4.1					Y N	
					Y N	
					Y N	
					Y N	
					Y N	†
					Y N	
					Y N	†
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL ESTIMATED	
	PUMI	,	IR LIFT	BAILER OTHER - SPECIFY:	WELL YIELD (gpm)	: 0.00
		^_		JOHELEN JOHN STEELER.	·, · · · .	
ION	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE		
TEST; RIG SUPERVISION	MISCELLAI	NEOUS INF	te	emporary well materials removed and the soil boring backfilled usin et below ground surface, then hydrated bentonite chips from ten fee ogs adapted from WSP on-site geologist.	g drill cuttings from t t below ground surface	total depth to ten te to surface.
LESI	PRINT NAM	E(S) OF DI	RILL RIG SUPER	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	STRUCTION OTHER 1	THAN LICENSEE:
5.1	Shane Eldric			,		
SIGNATURE	CORRECT F	RECORD OF	F THE ABOVE I	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELI DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R SO DAYS AFTER COMPLETION OF WELL DRILLING:		
6. SIGN	Jack A	tkins		Jackie D. Atkins	01/15/2021	
9		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE NAME	DATE	

FOR OSE INTERNAL USE

| FILE NO. | C-4497 | POD NO. | TRN NO. | (82526)
| LOCATION | 23 | T245 Sec4 | R30 E | WELL TAG ID NO. | MA | PAGE 2 OF 2

John R. D Antonio, Jr., P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

682526 C 04497

File Mbr:

Well File Nbr: C 04497 POD1

Feb. 05, 2021

TACOMA MORRISSEY
WSP USA
3300 NORTH A STREET
BLDG 1 #222
MIDLAND, TX 79705

Greetings:

The above numbered permit was issued in your name on 12/01/2020.

The Well Record was received in this office on 01/28/2021, stating that it had been completed on 12/28/2020, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 12/01/2021.

If you have any questions, please feel free to contact us.

Sincerely,

Andrew Dennis (575)622-6521

drywell

Table 2.	Gnome-Coach	Site Monitoring	Well	Network	Water	Levels
----------	-------------	-----------------	------	---------	-------	--------

Well	Date	DTW (ft) ^a	TOC Elevation (ft amsl)	TSZ Elevation (ft amsl)	BSZ Elevation (ft amsl)	Formation/ Unit Monitored	Groundwater Elevation (ft amsl)
USGS-1	2/8/2022	440.13b	3428.72	2909°	2877°		2988.68
USGS-4	2/8/2022	431.84	3415.84	2942°	2909°	Culebra Dolomite	2988.96°
USGS-8	2/8/2022	424.66	3413.37	2949≎	2917°	a ration of the contract of	2988.710
LRL-7	2/8/2022	463.48	3444.64	2655ª	2129 ^d	Note to Francisco	2981.16 ^d
DD-1	2/8/2022	900.42	3399.53e	2261 ^d	U/NM	Salado Formation	2499.11 ^d

Notes:

The TOC elevations are provided in U.S. State Plane, Zone New Mexico East, coordinate system, with vertical data based on NAVD 88 and horizontal data based on NAD 83 (DOE 2015a).

- ^a Depth to water has not been corrected for true vertical depth.
- Well USGS-1 has a dedicated submersible pump that was not operating at the time of the water level measurement.
- ^e Elevation has been corrected for true vertical depth. (At the current water-level depths, the deviation correction for USGS-1 is 0.09 ft; the deviation correction for USGS-4 is 4.96 ft; and no correction is required for USGS-8 because it did not deviate from vertical.)
- d Elevations for LRL-7 and DD-1 have not been corrected for true vertical depth because borehole deviation data are not available for these wells.
- * TOC elevation is estimated because of repairs to the wellhead after the well was vandalized in 2014 (DOE 2016a).

Abbreviations:

BSZ = bottom of screen zone, uncased, open, or perforated interval in ft amsl

DTW = depth to water (all measurements obtained from north top-of-casing)

ft amsl = feet above mean sea level

NAD 83 = North American Datum of 1983

NAVD 88 = North American Vertical Datum of 1988

TOC = top-of-casing elevation in ft amsl (NAVD 88)

TSZ = top of screen zone, uncased, open, or perforated interval in ft amsl

U/NM = unknown or not measured (the construction and open intervals of reentry well DD-1 are unknown)



APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: BH01	Date: 1/16/2023
				10				Site Name: Remuda 4-24-30	, , ,
				CP	U	L U		Incident Number: NAPP223351770)
								Job Number: 03C1558152	
		LITHOI	OGI	C / SOIL S	SAMPLING	LOG		Logged By: MR	Method: Hand Auger
Coord	linates: 3							Hole Diameter: 3.5"	Total Depth: 2'
					ith HACH Cl	nloride Test		PID for chloride and vapor, respect	
								ction factor.	, , , , , , , , , , , , , , , , , , , ,
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
М	224	49.0	Υ	BH01	0.5 _ - - - -	 - - - 0.5 -	SP-SM	0-1', SAND, red, fine-grained poorly sorted, sub-rounde staining.	d silt/sand mix, ed grains, moist, odor,
М	341.6	14.7	N	BH01A	1 _	1	SP	1'-2', SAND, red, fine-grained poorly sorted, sub-ground no staining.	d silt/sand mix, d grains, moist, odor,
М	<162.4	3.1	N	BH01B	2	2		2', SAND, red, fine-grained s sorted, sub-rounded grain no staining.	ilt/sand mix, poorly ns, moist, little odor,
							TD	Total Depth @ 2' bgs.	

								Sample Name: PH01	Date: 1/16/2023
			N		OL		N.A	Site Name: Remuda 4-24-30 CTB	
			I		O L	. 0	IAI	Incident Number: NAPP22335177	70
								Job Number: 03C1558152	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: MR	Method: Backhoe
Coord	inates: 3	2.25359,	-103.	88134				Hole Diameter: NA	Total Depth: 6'
								PID for chloride and vapor, respection factor.	ctively. Chloride tests
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	·
					-	-	CCHE (fill)	0-0.5', CALICHE, light brow rounded grains, odor, m	n, poorly sorted, sub- loist, stained, fill.
М	<162.4	916.8	Υ	SS01	0.5	0.5 	SP-SM	0.5'-2', SAND, orange/red, round grains, odor, mois	poorly sorted, sub- st, no staining.
М	162.4	219.0	N	PH01	1 _	_ 1 _			
М	<162.4	41.5	N	PH01A	2 _	<u> </u>	SP	2'-6', SAND, dark brown/re rounded grains, odor, m	ed, poorly sorted, sub- loist, no staining.
М	<162.4	32.3	N		- - -	- _ 3 -			
М	<162.4	13.1	N	PH01B	4 _	4			
М	<162.4	5.4	N		- - -	- - 5 -		5'-6', no odor.	
М	<162.4	1	N	PH01C	6 _	- 6 -	TD	Total Depth @ 6' bgs.	
					- -	- - -			
					- - -	- - -			
					- - -	- - -			
					- - -	- - -			
					-	-			

								Sample Name: PH02	Pate: 1/16/2023
					OL		R.A	Site Name: Remuda 4-24-30 CTB	
			17	1 3	U	. 0	IAI	Incident Number: NAPP223351770	
								Job Number: 03C1558152	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG			Method: Backhoe
Coord	inates: 32	2.25359,	-103.	88134				Hole Diameter: NA	otal Depth: 6'
					vith HACH Ch il to distilled			PID for chloride and vapor, respective ction factor.	ely. Chloride tests
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descr	iptions
					1	<u> </u>	CCHE	0-0.5' CALICHE, light brown, por rounded grains, odor, moist	oorly sorted, sub- t, stained.
М	162.4	1266	Υ	SS02	0.5	0.5	SP-SM	0.5'-2', SAND, orange/red, poo round grains, odor, moist, n	orly sorted, sub- o staining.
М	<162.4	53.7	N	PH02	1 _	<u> </u>			
М	<162.4	64.7	N	PH02A	2	<u> </u>	SP	2-5' SAND, dark brown/red, po rounded grains, odor, mois	oorly sorted, sub- t, no staining.
М	<162.4	24.6	N		- - -	_ _ 3 -			
М	<162.4	6.6	N	PH02B	4 _	4 4		4'-6', no odor.	
М	<162.4	3.8	N		-	- - _ 5 -			
М	<162.4	2.6	N	PH02C	6	- - 6 -			
						-	TD	Total Depth @ 6' bgs.	

								Sample Name: PH03	Date: 1/16/2023
ENSOLUM							Site Name: Remuda 4-24-30 CTB		
							Incident Number: NAPP223351770		
							Job Number: 03C1558152		
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: MR	Method: Backhoe	
Coordinates: 32.25359, -103.88134							Hole Diameter: NA	otal Depth: 7'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride tests performed with 1:4 dilution factor of soil to distilled water and 40% correction factor.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descr	iptions
						<u> </u>	CCHE	0-0.5' CALICHE, light brown, p rounded grains, odor, mois	oorly sorted, sub- t, stained.
М	162.4	525.6	Υ	SS03	0.5	0.5	SP	0.5'-7' SAND, orange/red, poo round grains, odor, moist, I	orly sorted, sub- no staining.
М	<162.4	388.8	N	PH03	1	1			
М	<162.4	37.9	N	PH03A	2	2 2			
М	<162.4	11.1	N		- - -	- _ 3		3'-6' trace odor.	
М	<162.4	8	N	РН03В	4 _	- - 4			
М	<162.4	11.4	N		- - -	- - _ 5 -			
М	<162.4	3.1	N	РН03С	6 _	- - 6		6'-7', no odor.	
М	<162.4	2.4	N		- - -	- - 7 -	TD	Total Depth @ 7' bgs.	



APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc
Remuda Basin 4-24-30 CTB
Incident Number NAPP2233351770





Photograph 1 Date: 01/09/2023 Description: Site assessment, release extent area.

View: South

Photograph 2 Date: 01/09/2023 Description: Site assessment, release extent area. View: North



Photograph 3
Description: Liner inspection

View: North



Photograph 4 Date: 01/09/2023

Description: Liner inspection, liner tear.

View: South

Date: 01/09/2023



Photographic Log
XTO Energy, Inc
Remuda Basin 4-24-30 CTB
Incident Number NAPP2233351770





Description: Delineation activities, BH01.

View: South



Photograph 6 Date: 01/16/2023

Description: Liner patch, BH01.

View: North



Photograph 7 Date: 02/20/2023 Description: Excavation activities, excavation extent.

View: North



Photograph 8 Date: 02/21/2023

Description: Excavation activities, final excavation extent.

View: South



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 1/26/2023 11:32:53 AM

JOB DESCRIPTION

Remuda 4-24-30 CTB SDG NUMBER 03C1558152

JOB NUMBER

890-3786-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 1/26/2023 11:32:53 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Client: Ensolum
Project/Site: Remuda 4-24-30 CTB
Laboratory Job ID: 890-3786-1
SDG: 03C1558152

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Definitions/Glossary

Job ID: 890-3786-1 Client: Ensolum Project/Site: Remuda 4-24-30 CTB

SDG: 03C1558152

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

Qualifier Description

Н Sample was prepped or analyzed beyond the specified holding time

S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased.

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Remuda 4-24-30 CTB

Job ID: 890-3786-1

SDG: 03C1558152

Job ID: 890-3786-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3786-1

Receipt

The samples were received on 1/10/2023 9:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3786-1), SS02 (890-3786-2) and SS03 (890-3786-3).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43678 and analytical batch 880-43961 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS03 (890-3786-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Reanalysis of the following sample(s) was performed outside of the analytical holding time.: SS01 (890-3786-1) and SS02 (890-3786-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-43804 and analytical batch 880-43781 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-3786-1), SS02 (890-3786-2) and SS03 (890-3786-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (MB 880-43804/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43786 and analytical batch 880-43927 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Lab Sample ID: 890-3786-1

Job ID: 890-3786-1

01/12/23 11:42

01/12/23 11:42

01/13/23 04:07

01/13/23 04:07

Lab Sample ID: 890-3786-2

Client: Ensolum SDG: 03C1558152 Project/Site: Remuda 4-24-30 CTB

Client Sample ID: SS01

Date Collected: 01/09/23 13:55 Date Received: 01/10/23 09:05

Sample Depth: 0.5

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.48		0.0399	mg/Kg		01/10/23 15:37	01/17/23 09:02	20
Toluene	0.399		0.0399	mg/Kg		01/10/23 15:37	01/17/23 09:02	20
Ethylbenzene	0.967		0.0399	mg/Kg		01/10/23 15:37	01/17/23 09:02	20
m-Xylene & p-Xylene	0.246		0.0798	mg/Kg		01/10/23 15:37	01/17/23 09:02	20
o-Xylene	0.142		0.0399	mg/Kg		01/10/23 15:37	01/17/23 09:02	20
Xylenes, Total	0.388		0.0798	mg/Kg		01/10/23 15:37	01/17/23 09:02	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	663	S1+	70 - 130			01/10/23 15:37	01/17/23 09:02	20
1,4-Difluorobenzene (Surr)	52	S1-	70 - 130			01/10/23 15:37	01/17/23 09:02	20
Method: SW846 8015 NM - Dies	• •	. , ,	•					
	• •	ics (DRO) (C	GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	• •	. , ,	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/13/23 12:42	Dil Fac
Analyte Total TPH	Result 14500	Qualifier	RL 250		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die	Result 14500 esel Range Orga	Qualifier	RL 250		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result 14500 esel Range Orga	Qualifier Qualifier Qualifier Qualifier	RL 250	mg/Kg			01/13/23 12:42	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 14500 esel Range Orga Result	Qualifier Qualifier Qualifier Qualifier	RL 250 (GC)	mg/Kg		Prepared	01/13/23 12:42 Analyzed	Dil Fac
Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 14500 esel Range Orga Result 2670	Qualifier Qualifier Qualifier Qualifier	RL 250 (GC) RL 250	mg/Kg Unit mg/Kg		Prepared 01/12/23 11:42	01/13/23 12:42 Analyzed 01/13/23 04:07	Dil Fac Dil Fac 5 5

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac 176 4.99 Chloride mg/Kg 01/13/23 21:12

70 - 130

70 - 130

153 S1+

201 S1+

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 01/09/23 14:00 Date Received: 01/10/23 09:05

Client Sample ID: SS02

Sample Depth: 0.5

1-Chlorooctane

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.73	Н	0.495	mg/Kg		01/25/23 09:03	01/25/23 22:13	250
Toluene	36.5	Н	0.495	mg/Kg		01/25/23 09:03	01/25/23 22:13	250
Ethylbenzene	11.3	Н	0.495	mg/Kg		01/25/23 09:03	01/25/23 22:13	250
m-Xylene & p-Xylene	32.4	Н	0.990	mg/Kg		01/25/23 09:03	01/25/23 22:13	250
o-Xylene	11.7	Н	0.495	mg/Kg		01/25/23 09:03	01/25/23 22:13	250
Xylenes, Total	44.1	Н	0.990	mg/Kg		01/25/23 09:03	01/25/23 22:13	250

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Matrix: Solid

Lab Sample ID: 890-3786-2

Client Sample Results

Client: Ensolum Job ID: 890-3786-1 Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

Client Sample ID: SS02

Date Collected: 01/09/23 14:00 Date Received: 01/10/23 09:05

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	01/10/23 15:37	01/17/23 09:23	20
1,4-Difluorobenzene (Surr)	82		70 - 130	01/10/23 15:37	01/17/23 09:23	20

Method: TAL SOP Total BTEX - Tot	al BTEX Calc	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	96.6		0.990	mg/Kg			01/25/23 11:34	1

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (GC	()					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	12700	250	mg/Kg			01/13/23 12:42	1

Method: SW846 8015B NM - Di	esel Range Organics (DRO)	I Range Organics (DRO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2610	250	mg/Kg		01/12/23 11:42	01/13/23 04:29	5
Diesel Range Organics (Over C10-C28)	8700	250	mg/Kg		01/12/23 11:42	01/13/23 04:29	5
Oll Range Organics (Over C28-C36)	1350	250	mg/Kg		01/12/23 11:42	01/13/23 04:29	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

	Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
	1-Chlorooctane	155	S1+	70 - 130	01	1/12/23 11:42	01/13/23 04:29	5
	o-Terphenyl	171	S1+	70 - 130	01	1/12/23 11:42	01/13/23 04:29	5
٠,	_							

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - Sol	uble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	211		5.03	mg/Kg			01/13/23 21:18	1

Client Sample ID: SS03 Lab Sample ID: 890-3786-3 Date Collected: 01/09/23 14:05 **Matrix: Solid**

Date Received: 01/10/23 09:05 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0152		0.00199	mg/Kg		01/10/23 15:37	01/17/23 09:44	1
Toluene	0.213		0.0402	mg/Kg		01/18/23 08:29	01/18/23 14:19	20
Ethylbenzene	0.131		0.00199	mg/Kg		01/10/23 15:37	01/17/23 09:44	1
m-Xylene & p-Xylene	15.4		0.797	mg/Kg		01/19/23 09:48	01/19/23 18:28	200
o-Xylene	0.189		0.00199	mg/Kg		01/10/23 15:37	01/17/23 09:44	1
Xylenes, Total	22.3		0.797	mg/Kg		01/19/23 09:48	01/19/23 18:28	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	256	S1+	70 - 130			01/10/23 15:37	01/17/23 09:44	1
1,4-Difluorobenzene (Surr)	115		70 - 130			01/10/23 15:37	01/17/23 09:44	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	15.9		0.797	mg/Kg			01/17/23 14:40	

Lab Sample ID: 890-3786-3

Client Sample Results

 Client: Ensolum
 Job ID: 890-3786-1

 Project/Site: Remuda 4-24-30 CTB
 SDG: 03C1558152

Client Sample ID: SS03

Date Collected: 01/09/23 14:05 Date Received: 01/10/23 09:05

Sample Depth: 0.5

o-Terphenyl

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	11800	250	mg/Kg			01/13/23 12:42	1
_							

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1050		250	mg/Kg		01/12/23 11:42	01/13/23 04:52	5
Diesel Range Organics (Over C10-C28)	9580		250	mg/Kg		01/12/23 11:42	01/13/23 04:52	5
Oll Range Organics (Over C28-C36)	1200		250	mg/Kg		01/12/23 11:42	01/13/23 04:52	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	158	S1+	70 - 130			01/12/23 11:42	01/13/23 04:52	5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	63.8	F1	5.04	mg/Kg			01/13/23 21:24	1		

70 - 130

178 S1+

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Surrogate Summary

Job ID: 890-3786-1 Client: Ensolum Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-23505-A-3-C MS	Matrix Spike	90	97	
80-23505-A-3-D MSD	Matrix Spike Duplicate	101	98	
80-24055-A-1-A MS	Matrix Spike	100	114	
80-24055-A-1-B MSD	Matrix Spike Duplicate	95	113	
90-3786-1	SS01	663 S1+	52 S1-	
90-3786-2	SS02	143 S1+	82	
90-3786-3	SS03	256 S1+	115	
90-3857-A-1-G MS	Matrix Spike	97	110	
90-3857-A-1-H MSD	Matrix Spike Duplicate	96	112	
90-3860-A-1-E MS	Matrix Spike	127	101	
90-3860-A-1-F MSD	Matrix Spike Duplicate	114	99	
CS 880-43678/1-A	Lab Control Sample	107	100	
CS 880-44226/1-A	Lab Control Sample	89	104	
CS 880-44316/1-A	Lab Control Sample	93	113	
CS 880-44700/1-A	Lab Control Sample	92	112	
CSD 880-43678/2-A	Lab Control Sample Dup	98	100	
CSD 880-44226/2-A	Lab Control Sample Dup	112	99	
CSD 880-44316/2-A	Lab Control Sample Dup	98	109	
CSD 880-44700/2-A	Lab Control Sample Dup	97	108	
B 880-43678/5-A	Method Blank	90	91	
IB 880-43910/5-A	Method Blank	99	100	
IB 880-44226/5-A	Method Blank	82	90	
IB 880-44316/5-A	Method Blank	95	108	
IB 880-44700/5-A	Method Blank	103	111	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3786-1	SS01	153 S1+	201 S1+	
890-3786-2	SS02	155 S1+	171 S1+	
890-3786-3	SS03	158 S1+	178 S1+	
890-3804-A-1-F MS	Matrix Spike	96	100	
890-3804-A-1-G MSD	Matrix Spike Duplicate	98	102	
LCS 880-43804/2-A	Lab Control Sample	106	107	
LCSD 880-43804/3-A	Lab Control Sample Dup	122	121	
MB 880-43804/1-A	Method Blank	144 S1+	154 S1+	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum

Job ID: 890-3786-1

SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43678/5-A

Project/Site: Remuda 4-24-30 CTB

Analysis Batch: 43961

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43678

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/10/23 15:37	01/17/23 01:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/10/23 15:37	01/17/23 01:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/10/23 15:37	01/17/23 01:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/10/23 15:37	01/17/23 01:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/10/23 15:37	01/17/23 01:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/10/23 15:37	01/17/23 01:44	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	01/10/23 15:37	01/17/23 01:44	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/10/23 15:37	01/17/23 01:44	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43678

Lab Sample ID: LCS 880-43678/1-A Matrix: Solid

Analysis Batch: 43961

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08210		mg/Kg		82	70 - 130	
Toluene	0.100	0.08137		mg/Kg		81	70 - 130	
Ethylbenzene	0.100	0.09476		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1803		mg/Kg		90	70 - 130	
o-Xylene	0.100	0.09496		mg/Kg		95	70 - 130	

Spike

Added

0.100

0.100

0.100

0.200

0.100

LCSD LCSD

0.09206

0.08730

0.09689

0.1821

0.09499

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-43678/2-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 43961

%Rec

70 - 130

70 - 130

Prep Type: Total/NA Prep Batch: 43678

%Rec Limits Limit 92 70 - 130 11 35 87 70 - 130 7 35 97 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1.4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-23505-A-3-C MS

Matrix: Solid

Analysis Batch: 43961

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 43678

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F1	0.101	0.03404	F1	mg/Kg		33	70 - 130	
Toluene	0.0490	F1	0.101	0.1070	F1	mg/Kg		58	70 - 130	

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RPD

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QC Sample Results

Client: Ensolum Job ID: 890-3786-1 Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-23505-A-3-C MS

Matrix: Solid

Analysis Batch: 43961

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43678

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	0.0311	F1	0.101	0.07371	F1	mg/Kg		42	70 - 130	
m-Xylene & p-Xylene	0.0525	F1	0.202	0.09648	F1	mg/Kg		22	70 - 130	
o-Xylene	0.0721	F1	0.101	0.1043	F1	mg/Kg		32	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	90	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43678

Lab Sample ID: 880-23505-A-3-D MSD **Matrix: Solid**

Analysis Batch: 43961

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.0990 0.03062 F1 Benzene <0.00199 UF1 mg/Kg 30 70 - 130 11 35 Toluene 0.0990 58 70 - 130 35 0.0490 F1 0.1063 F1 mg/Kg Ethylbenzene 0.0311 F1 0.0990 0.07521 F1 mg/Kg 45 70 - 130 2 35 m-Xylene & p-Xylene 0.198 0.1023 F1 25 70 - 130 35 0.0525 F1 mg/Kg 6 0.0721 F1 0.0990 0.1102 F1 o-Xylene 38 70 - 130 mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-43910/5-A

Matrix: Solid

Analysis Batch: 43961

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43910

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
	Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Analyte Result Benzene <0.00200 Toluene <0.00200 Ethylbenzene <0.00200 m-Xylene & p-Xylene <0.00400 o-Xylene <0.00200	Benzene	Analyte Result Qualifier RL Benzene <0.00200 U 0.00200 Toluene <0.00200 U 0.00200 Ethylbenzene <0.00200 U 0.00200 m-Xylene & p-Xylene <0.00400 U 0.00400 o-Xylene <0.00200 U 0.00200	Analyte Result Qualifier RL Unit Benzene <0.00200 U 0.00200 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg Ethylbenzene <0.00200 U 0.00200 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg	Analyte Result Qualifier RL Unit D Benzene <0.00200 U 0.00200 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg Ethylbenzene <0.00200 U 0.00200 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg	Analyte Result Qualifier RL Unit D Prepared Benzene <0.00200 U 0.00200 mg/Kg 01/13/23 13:50 Toluene <0.00200 U 0.00200 mg/Kg 01/13/23 13:50 Ethylbenzene <0.00200 U 0.00200 mg/Kg 01/13/23 13:50 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 01/13/23 13:50 o-Xylene <0.00200 U 0.00200 mg/Kg 01/13/23 13:50	Analyte Result Qualifier RL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 mg/Kg 01/13/23 13:50 01/16/23 14:39 Toluene <0.00200 U 0.00200 mg/Kg 01/13/23 13:50 01/16/23 14:39 Ethylbenzene <0.00200 U 0.00200 mg/Kg 01/13/23 13:50 01/16/23 14:39 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 01/13/23 13:50 01/16/23 14:39 o-Xylene <0.00200 U 0.00200 mg/Kg 01/13/23 13:50 01/16/23 14:39

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	01/13/23 13:50	01/16/23 14:39	1
1,4-Difluorobenzene (Surr)	100	70 - 130	01/13/23 13:50	01/16/23 14:39	1

Lab Sample ID: MB 880-44226/5-A

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44226

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/18/23 08:29	01/18/23 11:41	1

Client: Ensolum

Project/Site: Remuda 4-24-30 CTB

Job ID: 890-3786-1

SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-44226/5-A

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44226

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/18/23 08:29	01/18/23 11:41	1

MR MR

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82	70 - 130	01/18/23 08:29	01/18/23 11:41	1
1,4-Difluorobenzene (Surr)	90	70 - 130	01/18/23 08:29	01/18/23 11:41	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-44226/1-A **Matrix: Solid**

Lab Sample ID: LCSD 880-44226/2-A

Matrix: Solid

Analysis Batch: 44223

Analysis Batch: 44223

Prep Type: Total/NA

Prep Batch: 44226

	Spike	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09903		mg/Kg		99	70 - 130	
Toluene	0.100	0.09706		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.08273		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	0.200	0.1705		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.09254		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	89	70 _ 130
1.4-Difluorobenzene (Surr)	104	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44226

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1030		mg/Kg		103	70 - 130	4	35
Toluene	0.100	0.1089		mg/Kg		109	70 - 130	12	35
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130	24	35
m-Xylene & p-Xylene	0.200	0.2353		mg/Kg		118	70 - 130	32	35
o-Xylene	0.100	0.1291		mg/Kg		129	70 - 130	33	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1.4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 890-3860-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 44223

Prep Type: Total/NA

Prep Batch: 44226

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0990	0.09265		mg/Kg		94	70 - 130	
Toluene	<0.00201	U	0.0990	0.09939		mg/Kg		100	70 - 130	
Ethylbenzene	<0.00201	U	0.0990	0.09605		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2160		mg/Kg		109	70 - 130	
o-Xylene	<0.00201	U	0.0990	0.1191		mg/Kg		120	70 - 130	

Job ID: 890-3786-1 Client: Ensolum Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3860-A-1-E MS

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44226

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 127 70 - 130 1,4-Difluorobenzene (Surr) 101 70 - 130

Lab Sample ID: 890-3860-A-1-F MSD

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44226

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <0.00201 U 0.101 0.08187 81 70 - 130 12 35 Benzene mg/Kg Toluene <0.00201 U 0.101 0.08779 mg/Kg 87 70 - 130 12 35 <0.00201 U 0.101 0.08013 mg/Kg 79 70 - 130 18 35 Ethylbenzene m-Xylene & p-Xylene <0.00402 U 0.202 0.1785 mg/Kg 89 70 - 130 19 35 o-Xylene <0.00201 U 0.101 0.09776 mg/Kg 70 - 130 20 35

MSD MSD

Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 114 70 - 130 1,4-Difluorobenzene (Surr) 99 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 44316

Matrix: Solid Analysis Batch: 44312

Lab Sample ID: MB 880-44316/5-A

MR MR

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 09:48	01/19/23 12:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 09:48	01/19/23 12:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 09:48	01/19/23 12:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/19/23 09:48	01/19/23 12:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 09:48	01/19/23 12:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/19/23 09:48	01/19/23 12:04	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/19/23 09:48	01/19/23 12:04	1
1,4-Difluorobenzene (Surr)	108		70 - 130	01/19/23 09:48	01/19/23 12:04	1

Lab Sample ID: LCS 880-44316/1-A

Matrix: Solid

Analysis Batch: 44312

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44316

	Бріке	LUS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08919		mg/Kg		89	70 - 130	
Toluene	0.100	0.09173		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.08988		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1824		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.08756		mg/Kg		88	70 - 130	

LCS LCS

%Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 93

Client: Ensolum

Job ID: 890-3786-1

SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-44316/1-A

Lab Sample ID: LCSD 880-44316/2-A

Project/Site: Remuda 4-24-30 CTB

Matrix: Solid

Matrix: Solid

Analysis Batch: 44312

Analysis Batch: 44312

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44316

LCS LCS

Surrogate %Recovery Qualifier Limits 1,4-Difluorobenzene (Surr) 113 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44316

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09534		mg/Kg		95	70 - 130	7	35
Toluene	0.100	0.09337		mg/Kg		93	70 - 130	2	35
Ethylbenzene	0.100	0.09216		mg/Kg		92	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1896		mg/Kg		95	70 - 130	4	35
o-Xylene	0.100	0.09054		mg/Kg		91	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: 890-3857-A-1-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 44312

Prep Type: Total/NA

Prep Batch: 44316

_	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00199	U	0.0998	0.09932		mg/Kg		100	70 - 130
Toluene	<0.00199	U	0.0998	0.09690		mg/Kg		97	70 - 130
Ethylbenzene	< 0.00199	U	0.0998	0.09484		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1940		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U	0.0998	0.09254		mg/Kg		92	70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 _ 130
1,4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: 890-3857-A-1-H MSD

Released to Imaging: 3/26/2025 8:37:43 AM

Matrix: Solid

Analysis Batch: 44312

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44316

П		Sample	Sample	Spike	IVISD	MISD				/onec		KFD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	<0.00199	U	0.100	0.09902		mg/Kg		99	70 - 130	0	35
	Toluene	< 0.00199	U	0.100	0.09524		mg/Kg		95	70 - 130	2	35
	Ethylbenzene	< 0.00199	U	0.100	0.09273		mg/Kg		93	70 - 130	2	35
	m-Xylene & p-Xylene	<0.00398	U	0.200	0.1901		mg/Kg		95	70 - 130	2	35
	o-Xylene	< 0.00199	U	0.100	0.09053		mg/Kg		90	70 - 130	2	35

MSD MSD

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	112	70 - 130

Client: Ensolum

Job ID: 890-3786-1 SDG: 03C1558152

Project/Site: Remuda 4-24-30 CTB Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-44700/5-A

Matrix: Solid

Analysis Batch: 44693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44700

ı		MB	MB						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		01/25/23 09:03	01/25/23 12:59	1
	Toluene	<0.00200	U	0.00200	mg/Kg		01/25/23 09:03	01/25/23 12:59	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/25/23 09:03	01/25/23 12:59	1
I	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/25/23 09:03	01/25/23 12:59	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		01/25/23 09:03	01/25/23 12:59	1
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/25/23 09:03	01/25/23 12:59	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/25/23 09:03	01/25/23 12:59	1
1,4-Difluorobenzene (Surr)	111		70 - 130	01/25/23 09:03	01/25/23 12:59	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-44700/1-A

Matrix: Solid

Analysis Batch: 44693

Prep Type: Total/NA

Prep Batch: 44700

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09940		mg/Kg		99	70 - 130	
Toluene	0.100	0.09449		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09243		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1888		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.08937		mg/Kg		89	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	92		70 - 130		
1,4-Difluorobenzene (Surr)	112		70 - 130		

Lab Sample ID: LCSD 880-44700/2-A

Matrix: Solid

Analysis Batch: 44693

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44700

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1032		mg/Kg		103	70 - 130	4	35
Toluene	0.100	0.09936		mg/Kg		99	70 - 130	5	35
Ethylbenzene	0.100	0.09755		mg/Kg		98	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2000		mg/Kg		100	70 - 130	6	35
o-Xylene	0.100	0.09499		mg/Kg		95	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1.4-Difluorobenzene (Surr)	108		70 ₋ 130

Lab Sample ID: 880-24055-A-1-A MS

Matrix: Solid

Analysis Batch: 44693

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 44700

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.08870		mg/Kg	_	88	70 - 130	
Toluene	<0.00201	U	0.101	0.08167		mg/Kg		81	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-3786-1 Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-24055-A-1-B MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 44693

Lab Sample ID: 880-24055-A-1-A MS Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44700

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 0.101 Ethylbenzene <0.00201 U 0.08122 81 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00402 U 0.202 0.1683 mg/Kg 83 70 - 130 o-Xylene <0.00201 U 0.101 0.08015 80 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery Qualit	ier Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	114	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44700

RPD

Analysis Batch: 44693 Sample Sample Spike MSD MSD Result Qualifier Result Qualifier RPD Limit Analyte babbA Unit %Rec Limits Benzene <0.00201 U 0.0996 0.09476 mg/Kg 95 70 - 130 7 35 Toluene <0.00201 U 0.0996 0.08803 mg/Kg 88 70 - 130 35 Ethylbenzene <0.00201 U 0.0996 0.08358 mg/Kg 84 70 - 130 35 3 0.199 0.1708 70 - 130 35 m-Xylene & p-Xylene <0.00402 U mg/Kg 86 0.0996 <0.00201 U 0.08168 82 70 - 130 2 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-43804/1-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43804

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/12/23 11:42	01/12/23 19:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/12/23 11:42	01/12/23 19:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 11:42	01/12/23 19:44	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepar	red	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130	01/12/23	11:42	01/12/23 19:44	1
o-Terphenyl	154	S1+	70 - 130	01/12/23	11:42	01/12/23 19:44	1

Lab Sample ID: LCS 880-43804/2-A

Matrix: Solid

Analysis Batch: 43781

C10-C28)

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 43804

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	949.4		mg/Kg		95	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	934.9		mg/Kg		93	70 - 130	

Job ID: 890-3786-1

Client: Ensolum Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-43804/2-A

Limits

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43804

1-Chlorooctane 106 70 - 130 o-Terphenyl 107 70 - 130

Lab Sample ID: LCSD 880-43804/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Surrogate

Analysis Batch: 43781

Prep Type: Total/NA

Prep Batch: 43804

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 914.9 91 70 - 13020 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1075 108 mg/Kg 70 - 13020 14

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 890-3804-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 43781

Prep Type: Total/NA

Prep Batch: 43804

Sample Sample Spike MS MS Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F2 998 891.6 mg/Kg 88 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 983.2 mg/Kg 99 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 96

o-Terphenyl 100 70 - 130

Lab Sample ID: 890-3804-A-1-G MSD

Matrix: Solid Analysis Batch: 43781 Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43804

	Sample	Sample	Spike	MSD	M2D				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U F2	997	1139	F2	mg/Kg		113	70 - 130	24	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	997	1082		mg/Kg		109	70 - 130	10	20	
040 000)												

Cmile.

C10-C28)

MSD MSD

Camania Camania

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	102		70 - 130

Client: Ensolum Job ID: 890-3786-1 Project/Site: Remuda 4-24-30 CTB

SDG: 03C1558152

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43786/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 43927

MB MB Dil Fac Result Qualifier RL Unit Prepared Analyzed <5.00 U 5.00 mg/Kg 01/13/23 19:39

Lab Sample ID: LCS 880-43786/2-A **Matrix: Solid**

Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Analyte

Chloride

Analysis Batch: 43927

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	269.2		mg/Kg		108	90 - 110	

Lab Sample ID: LCSD 880-43786/3-A Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 43927

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	274.1		mg/Kg		110	90 - 110	2	20

Lab Sample ID: 890-3786-3 MS Client Sample ID: SS03 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 43927

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	63.8	F1	252	356.8	F1	mg/Kg		116	90 - 110	

Lab Sample ID: 890-3786-3 MSD **Client Sample ID: SS03 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 43927

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	63.8	F1	252	370.6	F1	mg/Kg		122	90 - 110	4	20

QC Association Summary

Client: Ensolum

Project/Site: Remuda 4-24-30 CTB

Job ID: 890-3786-1 SDG: 03C1558152

GC VOA

Prep Batch: 43678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3786-1	SS01	Total/NA	Solid	5035	
890-3786-2	SS02	Total/NA	Solid	5035	
890-3786-3	SS03	Total/NA	Solid	5035	
MB 880-43678/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43678/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43678/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23505-A-3-C MS	Matrix Spike	Total/NA	Solid	5035	
880-23505-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 43910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43910/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 43961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3786-1	SS01	Total/NA	Solid	8021B	43678
890-3786-2	SS02	Total/NA	Solid	8021B	43678
890-3786-3	SS03	Total/NA	Solid	8021B	43678
MB 880-43678/5-A	Method Blank	Total/NA	Solid	8021B	43678
MB 880-43910/5-A	Method Blank	Total/NA	Solid	8021B	43910
LCS 880-43678/1-A	Lab Control Sample	Total/NA	Solid	8021B	43678
LCSD 880-43678/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43678
880-23505-A-3-C MS	Matrix Spike	Total/NA	Solid	8021B	43678
880-23505-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43678

Analysis Batch: 44179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3786-1	SS01	Total/NA	Solid	Total BTEX	
890-3786-2	SS02	Total/NA	Solid	Total BTEX	
890-3786-3	SS03	Total/NA	Solid	Total BTEX	

Analysis Batch: 44223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3786-3	SS03	Total/NA	Solid	8021B	44226
MB 880-44226/5-A	Method Blank	Total/NA	Solid	8021B	44226
LCS 880-44226/1-A	Lab Control Sample	Total/NA	Solid	8021B	44226
LCSD 880-44226/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44226
890-3860-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	44226
890-3860-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	44226

Prep Batch: 44226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3786-3	SS03	Total/NA	Solid	5035	
MB 880-44226/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44226/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44226/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3860-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3860-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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QC Association Summary

 Client: Ensolum
 Job ID: 890-3786-1

 Project/Site: Remuda 4-24-30 CTB
 SDG: 03C1558152

GC VOA

Analysis Batch: 44312

Lab Sample ID 890-3786-3	Client Sample ID SS03	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 44316
MB 880-44316/5-A	Method Blank	Total/NA	Solid	8021B	44316
LCS 880-44316/1-A	Lab Control Sample	Total/NA	Solid	8021B	44316
LCSD 880-44316/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44316
890-3857-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	44316
890-3857-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	44316

Prep Batch: 44316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3786-3	SS03	Total/NA	Solid	5035	<u> </u>
MB 880-44316/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44316/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44316/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3857-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-3857-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 44693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3786-2	SS02	Total/NA	Solid	8021B	44700
MB 880-44700/5-A	Method Blank	Total/NA	Solid	8021B	44700
LCS 880-44700/1-A	Lab Control Sample	Total/NA	Solid	8021B	44700
LCSD 880-44700/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44700
880-24055-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	44700
880-24055-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	44700

Prep Batch: 44700

Lab Sample ID 890-3786-2	Client Sample ID SS02	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 880-44700/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44700/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44700/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24055-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-24055-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 43781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3786-1	SS01	Total/NA	Solid	8015B NM	43804
890-3786-2	SS02	Total/NA	Solid	8015B NM	43804
890-3786-3	SS03	Total/NA	Solid	8015B NM	43804
MB 880-43804/1-A	Method Blank	Total/NA	Solid	8015B NM	43804
LCS 880-43804/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43804
LCSD 880-43804/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43804
890-3804-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	43804
890-3804-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43804

Prep Batch: 43804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3786-1	SS01	Total/NA	Solid	8015NM Prep	
890-3786-2	SS02	Total/NA	Solid	8015NM Prep	

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QC Association Summary

 Client: Ensolum
 Job ID: 890-3786-1

 Project/Site: Remuda 4-24-30 CTB
 SDG: 03C1558152

GC Semi VOA (Continued)

Prep Batch: 43804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3786-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-43804/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43804/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43804/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3804-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3804-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43890

890-3786-1 SS01 Total/NA Solid 8015 NM 890-3786-2 SS02 Total/NA Solid 8015 NM	Batch
890-3786-2 SS02 Total/NA Solid 8015 NM	
000 0100 E	
890-3786-3 SS03 Total/NA Solid 8015 NM	

HPLC/IC

Leach Batch: 43786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3786-1	SS01	Soluble	Solid	DI Leach	
890-3786-2	SS02	Soluble	Solid	DI Leach	
890-3786-3	SS03	Soluble	Solid	DI Leach	
MB 880-43786/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43786/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43786/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3786-3 MS	SS03	Soluble	Solid	DI Leach	
890-3786-3 MSD	SS03	Soluble	Solid	DI Leach	

Analysis Batch: 43927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3786-1	SS01	Soluble	Solid	300.0	43786
890-3786-2	SS02	Soluble	Solid	300.0	43786
890-3786-3	SS03	Soluble	Solid	300.0	43786
MB 880-43786/1-A	Method Blank	Soluble	Solid	300.0	43786
LCS 880-43786/2-A	Lab Control Sample	Soluble	Solid	300.0	43786
LCSD 880-43786/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43786
890-3786-3 MS	SS03	Soluble	Solid	300.0	43786
890-3786-3 MSD	SS03	Soluble	Solid	300.0	43786

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Client: Ensolum

Project/Site: Remuda 4-24-30 CTB

Job ID: 890-3786-1 SDG: 03C1558152

Lab Sample ID: 890-3786-1

Matrix: Solid

Date Collected: 01/09/23 13:55 Date Received: 01/10/23 09:05

Client Sample ID: SS01

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43678	01/10/23 15:37	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	43961	01/17/23 09:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44179	01/25/23 11:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			43890	01/13/23 12:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43804	01/12/23 11:42	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43781	01/13/23 04:07	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	43786	01/12/23 09:15	KS	EET MID
Soluble	Analysis	300.0		1			43927	01/13/23 21:12	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-3786-2 Matrix: Solid

Date Collected: 01/09/23 14:00

Date Received: 01/10/23 09:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	43678	01/10/23 15:37	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	43961	01/17/23 09:23	MNR	EET MID
Total/NA	Prep	5035			5.05 g	5 mL	44700	01/25/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	44693	01/25/23 22:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44179	01/25/23 11:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			43890	01/13/23 12:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43804	01/12/23 11:42	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43781	01/13/23 04:29	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43786	01/12/23 09:15	KS	EET MID
Soluble	Analysis	300.0		1			43927	01/13/23 21:18	CH	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-3786-3

Date Collected: 01/09/23 14:05 Date Received: 01/10/23 09:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43678	01/10/23 15:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43961	01/17/23 09:44	MNR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	44316	01/19/23 09:48	MNR	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	44312	01/19/23 18:28	MNR	EET MID
Total/NA	Prep	5035			4.98 g	5 mL	44226	01/18/23 08:29	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	44223	01/18/23 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44179	01/17/23 14:40	SM	EET MIC
Total/NA	Analysis	8015 NM		1			43890	01/13/23 12:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43804	01/12/23 11:42	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43781	01/13/23 04:52	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	43786	01/12/23 09:15	KS	EET MIC
Soluble	Analysis	300.0		1			43927	01/13/23 21:24	CH	EET MIC

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3786-1 Project/Site: Remuda 4-24-30 CTB

SDG: 03C1558152

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-25	06-30-23	
The following analytes the agency does not of	• •	it the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		

Method Summary

Client: Ensolum Project/Site: Remuda 4-24-30 CTB Job ID: 890-3786-1

SDG: 03C1558152

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum

Project/Site: Remuda 4-24-30 CTB

Job ID: 890-3786-1

SDG: 03C1558152

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-3786-1	SS01	Solid	01/09/23 13:55	01/10/23 09:05	0
890-3786-2	SS02	Solid	01/09/23 14:00	01/10/23 09:05	0.
890-3786-3	SS03	Solid	01/09/23 14:05	01/10/23 09:05	0.5

eurofins

Xenco

Environment Testing

Address:

3122 Natil Parks Ensolum, LLL Ben Beill

3104 E Greene St

State of Project: Program:

UST/PST PRP Brownfields

RRC 🗆

Superfund [

www.xenco.com

Page

Work Order Comments

Bill to: (if different) Company Name:

Garrett Green XTO Energy

Company Name:

13

Chain of Custody

uston, TX (281) 240-4200, Dallas, TX (214) 902-0300 nd, TX (432) 704-5440, San Antonio, TX (210) 509-3334 aso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
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Midla EL Pa Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 공

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gnature) Date/Time	e) Received by: (Signature)	Relinquished by: (Signature)	Date/Time		(Signature)	Received by: (Signature)	(Signature)	Relinquished by: (Signature)
	and conditions rnd the control previously negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously nego	s Xenco, its affiliates and su Incurred by the client if su fins Xenco, but not analyz	y to Eurofins or expenses itted to Euro	purchase order from client companime any responsibility for any losses charge of \$5 for each sample submit	of samples constitutes a valid of samples and shall not assu applied to each project and a	ument and relinquishment rill be liable only for the cost am charge of \$85.00 will be	Notice: Signature of this do of service. Eurofins Xenco v of Eurofins Xenco. A minim
7245.1 / 7470 / 7471	Ag TI U Hg: 1631 / 245.1		As Ba Be Cd Cr		TCLP / SPLP 6010 : 8RCRA	e analyzed	and Metal(s) to b	Circle Method(s) and Metal(s) to be analyzed
Na Sr Tl Sn U V Zn	Mn Mo Ni K Se Ag SiO ₂ N	Ca Cr Co Cu Fe Pb Mg	As Ba Be B Cd (Al Sb /	13PPM Texas 11	0: 8RCRA	0 200.8 / 6020:	Total 200.7 / 6010
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Incident#			X X X	_	1355 0.51 G	S 1/9/23		OSS
Sample Comments			BT	# of Cont	Time Depth Grab/	Matrix Date Sampled		Sample Identification
NaOH+Ascorbic Acid: SAPC		_	I G		perature: 2.6	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn	of Custody	090-3786 Chain o	X		eading:	Temperature Reading:	Yes No	Sample Custody Seals:
Na ₂ S ₂ O ₃ ; NaSO ₃			d		or: - 0	M/A Correction Factor:	Yes No	Cooler Custody Seals:
NaHSO 4: NABIS			೭		1		act: Yes No	Samples Received Intact:
H ₃ PO ₄ : HP				eter	Wet Ice: Yes No	Tyes No	Temp Blank:	SAMPLE RECEIPT
H ₂ SO ₄ : H ₂ NaOH: Na				s	the lab, if received by 4:30pm			PO #:
HCL: HC HNO 3: HN		_			Roberts TAT starts the day received by	4 Roberts	Mercelith	Sampler's Name:
Cool: Cool MeOH: Me					ue Date:	32.25359, -103.8813 Due Date:	32.25359	Project Location:
None: NO DI Water: H ₂ O				Pres.	Routine Rush	8152	0361558152	Project Number:
Preservative Codes	ST	ANALYSIS REQUEST			Turn Around	Remuda 4 24-30 CTB	Remuda 4	Project Name:
ADaPT Other:	Deliverables: EDD	3.00	obelill@ensolum.com	chill	Email: 6k	989.854.0852	989-85	Phone:
PST/UST TRRP Level IV	Reporting: Level II Level III PST/UST TRRP	Carisbad, NM 88220	Carlsbad		City, State ZIP:	artsbad, NM 88220	Carisbad	City, State ZIP:

Work Order No:

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3786-1 SDG Number: 03C1558152

Login Number: 3786 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3786-1

SDG Number: 03C1558152

Login Number: 3786 **List Source: Eurofins Midland** List Number: 2

List Creation: 01/11/23 11:43 AM

Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum N. Marienfeld St

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 1/24/2023 2:48:16 PM

JOB DESCRIPTION

Remuda 4-24-30 CTB SDG NUMBER 03C1558152

JOB NUMBER

890-3871-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 1/24/2023 2:48:16 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Released to Imaging: 3/26/2025 8:37:43 AM

Client: Ensolum
Project/Site: Remuda 4-24-30 CTB
Laboratory Job ID: 890-3871-1
SDG: 03C1558152

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Definitions/Glossary

Job ID: 890-3871-1 Client: Ensolum Project/Site: Remuda 4-24-30 CTB

SDG: 03C1558152

Qualifiers

GC VOA

MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits S1-

Surrogate recovery exceeds control limits, high biased. S1+ Indicates the analyte was analyzed for but not detected. U

Glossary

Listed under the "D" column to designate that the result is reported on a dry weight basis

CFL Contains Free Liquid CFU Colony Forming Unit CNF

DL Detection Limit (DoD/DOE)

DL. RA. RE. IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Minimum Detectable Activity (Radiochemistry) MDA

MI Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

POS Positive / Present

Quality Control QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Surrogate recovery exceeds control limits, low biased.

S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Abbreviation These commonly used abbreviations may or may not be present in this report.

%R Percent Recovery

Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

NEG Negative / Absent

Practical Quantitation Limit **PQL**

PRES Presumptive

TEF Toxicity Equivalent Factor (Dioxin)

Case Narrative

Client: Ensolum

Project/Site: Remuda 4-24-30 CTB

Job ID: 890-3871-1 SDG: 03C1558152

Job ID: 890-3871-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3871-1

Receipt

The samples were received on 1/17/2023 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS04 (890-3871-1), SS05 (890-3871-2), SS06 (890-3871-3), SS07 (890-3871-4), SS08 (890-3871-5), SS09 (890-3871-6) and SS10 (890-3871-7).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS04 (890-3871-1), SS05 (890-3871-2), SS06 (890-3871-3), SS07 (890-3871-4), (LCS 880-44389/1-A), (890-3856-A-1-F) and (890-3856-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44250 and analytical batch 880-44506 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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| | 4

Lab Sample ID: 890-3871-1

Client: Ensolum

Job ID: 890-3871-1 Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

Client Sample ID: SS04

Date Collected: 01/16/23 10:45 Date Received: 01/17/23 08:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 06:19	
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 06:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 06:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/19/23 16:20	01/24/23 06:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 06:19	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/19/23 16:20	01/24/23 06:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130			01/19/23 16:20	01/24/23 06:19	1
1,4-Difluorobenzene (Surr)	83		70 - 130			01/19/23 16:20	01/24/23 06:19	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX Mothod: SW846 8015 NM - Diese	<0.00401		0.00401	mg/Kg			01/24/23 13:50	1
: Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)			Propared		
- -	I Range Organ			mg/Kg Unit mg/Kg	<u>D</u>	Prepared	01/24/23 13:50 Analyzed 01/24/23 14:41	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	I Range Organ Result 58.6	ics (DRO) (Qualifier	RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	I Range Organ Result 58.6 sel Range Orga	ics (DRO) (Qualifier unics (DRO)	GC) RL 49.9	Unit mg/Kg			Analyzed 01/24/23 14:41	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	I Range Organ Result 58.6 sel Range Orga Result	Qualifier unics (DRO) Qualifier Qualifier	(GC) RL RL RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/24/23 14:41 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	I Range Organ Result 58.6 sel Range Orga	Qualifier unics (DRO) Qualifier Qualifier	GC) RL 49.9	Unit mg/Kg			Analyzed 01/24/23 14:41	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	I Range Organ Result 58.6 sel Range Orga Result	Qualifier unics (DRO) Qualifier Qualifier	(GC) RL RL RL	Unit mg/Kg		Prepared	Analyzed 01/24/23 14:41 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	I Range Organ Result 58.6 sel Range Orga Result <49.9 58.6	ics (DRO) (Qualifier unics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/19/23 11:53 01/19/23 11:53	Analyzed 01/24/23 14:41 Analyzed 01/23/23 23:22 01/23/23 23:22	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	I Range Organ Result 58.6 sel Range Orga Result Result Result Ass. 6	ics (DRO) (Qualifier unics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 01/19/23 11:53	Analyzed 01/24/23 14:41 Analyzed 01/23/23 23:22	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	I Range Organ Result 58.6 sel Range Orga Result <49.9 58.6	ics (DRO) (Qualifier unics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/19/23 11:53 01/19/23 11:53	Analyzed 01/24/23 14:41 Analyzed 01/23/23 23:22 01/23/23 23:22	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	I Range Organ Result 58.6 sel Range Orga Result <49.9 58.6 <49.9	ics (DRO) (Qualifier unics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/19/23 11:53 01/19/23 11:53	Analyzed 01/24/23 14:41 Analyzed 01/23/23 23:22 01/23/23 23:22 01/23/23 23:22	Dil Fac

Client Sample ID: SS05 Lab Sample ID: 890-3871-2 Date Collected: 01/16/23 10:50

Result Qualifier

70.8

Date Received: 01/17/23 08:15

Analyte

Chloride

Sample	Depth:	0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 08:09	1		
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 08:09	1		
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 08:09	1		
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/19/23 16:20	01/24/23 08:09	1		
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 08:09	1		
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/19/23 16:20	01/24/23 08:09	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130			01/19/23 16:20	01/24/23 08:09	1		

RL

5.05

Unit

mg/Kg

D

Prepared

Analyzed

01/22/23 16:57

Dil Fac

Matrix: Solid

Client Sample Results

Job ID: 890-3871-1 Client: Ensolum

Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

Client Sample ID: SS05 Lab Sample ID: 890-3871-2 Date Collected: 01/16/23 10:50 Matrix: Solid

Date Received: 01/17/23 08:15 Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 01/19/23 16:20 1,4-Difluorobenzene (Surr) 82 01/24/23 08:09

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00399 0.00399 01/24/23 13:50 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier RL Unit D Prepared Analyzed Dil Fac **Total TPH** 49.8 mg/Kg 01/24/23 14:41 169

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac <49.8 U 01/19/23 11:53 Gasoline Range Organics 49.8 mg/Kg 01/24/23 00:26 (GRO)-C6-C10 49.8 mg/Kg 01/19/23 11:53 01/24/23 00:26 **Diesel Range Organics (Over** 169 C10-C28) OII Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 01/19/23 11:53 01/24/23 00:26

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 133 S1+ 70 - 130 01/19/23 11:53 01/24/23 00:26 o-Terphenyl 111 70 - 130 01/19/23 11:53 01/24/23 00:26

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 5.04 01/22/23 17:03 Chloride 190 mg/Kg

Lab Sample ID: 890-3871-3 Client Sample ID: SS06

Date Collected: 01/16/23 10:55 Date Received: 01/17/23 08:15

Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00202 U 0.00202 mg/Kg 01/19/23 16:20 01/24/23 08:37 Toluene <0.00202 U 0.00202 01/19/23 16:20 01/24/23 08:37 mg/Kg Ethylbenzene <0.00202 U 0.00202 01/19/23 16:20 01/24/23 08:37 mg/Kg 0.00403 01/24/23 08:37 m-Xylene & p-Xylene <0.00403 U 01/19/23 16:20 mg/Kg o-Xylene <0.00202 U 0.00202 mg/Kg 01/19/23 16:20 01/24/23 08:37 Xylenes, Total <0.00403 U 0.00403 mg/Kg 01/19/23 16:20 01/24/23 08:37

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 01/19/23 16:20 4-Bromofluorobenzene (Surr) 125 01/24/23 08:37 1,4-Difluorobenzene (Surr) 75 70 - 130 01/19/23 16:20 01/24/23 08:37

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL D Dil Fac Unit Prepared Analyzed Total BTEX <0.00403 0.00403 01/24/23 13:50 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <49.9 U Total TPH 49.9 mg/Kg 01/24/23 14:41

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-3871-1 Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

82.6 F1

Client Sample ID: SS06 Lab Sample ID: 890-3871-3 Date Collected: 01/16/23 10:55 Matrix: Solid

Date Received: 01/17/23 08:15 Sample Depth: 0.5

<49.9 <49.9		49.9	mg/Kg		01/19/23 11:53	01/24/23 00:48	1
	U	49.9	mg/Kg		01/19/23 11:53	01/24/23 00:48	1
	U	49.9	mg/Kg		01/19/23 11:53	01/24/23 00:48	1
40.0							
40.0							
<49.9	U	49.9	mg/Kg		01/19/23 11:53	01/24/23 00:48	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
113		70 - 130			01/19/23 11:53	01/24/23 00:48	1
102		70 - 130			01/19/23 11:53	01/24/23 00:48	1
Oh		aladala.					
	0			_	_		Dil Fac
	%Recovery 113 102 Chromato	102	%Recovery Qualifier Limits 113 70 - 130 102 70 - 130 Chromatography - Soluble	%Recovery Qualifier Limits 113 70 - 130 102 70 - 130 Chromatography - Soluble	%Recovery Qualifier Limits 113 70 - 130 102 70 - 130 Chromatography - Soluble	%Recovery Qualifier Limits Prepared 113 70 - 130 01/19/23 11:53 102 70 - 130 01/19/23 11:53 Chromatography - Soluble	%Recovery Qualifier Limits Prepared Analyzed 113 70 - 130 01/19/23 11:53 01/24/23 00:48 102 70 - 130 01/19/23 11:53 01/24/23 00:48 Chromatography - Soluble

Client Sample ID: SS07 Lab Sample ID: 890-3871-4 Date Collected: 01/16/23 11:00 Matrix: Solid

5.01

mg/Kg

Date Received: 01/17/23 08:15

Sample Depth: 0.5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 09:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 09:04	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 09:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:20	01/24/23 09:04	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 09:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:20	01/24/23 09:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130			01/19/23 16:20	01/24/23 09:04	1
1,4-Difluorobenzene (Surr)	86		70 - 130			01/19/23 16:20	01/24/23 09:04	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	40,00000						04/04/00 40 50	
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/23 13:50	1
• •				mg/Kg			01/24/23 13:50	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ		GC)	Unit	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte	Result 212	ics (DRO) (RL 49.8	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result 212 sel Range Orga	ics (DRO) (RL 49.8	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result 212 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.8 (GC)	<mark>Unit</mark> mg/Kg			Analyzed 01/24/23 14:41	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	el Range Organ Result 212 sel Range Orga Result	Qualifier nics (DRO) Qualifier	(GC) RL	Unit mg/Kg		Prepared	Analyzed 01/24/23 14:41 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result 212 sel Range Orga Result <49.8	Qualifier nics (DRO) Qualifier	(GC) RL 49.8 (GC) RL 49.8	Unit mg/Kg Unit mg/Kg		Prepared 01/19/23 11:53	Analyzed 01/24/23 14:41 Analyzed 01/24/23 01:09	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 212 sel Range Orga Result <49.8	ics (DRO) (Qualifier nics (DRO) Qualifier U	(GC) RL 49.8 (GC) RL 49.8	Unit mg/Kg Unit mg/Kg		Prepared 01/19/23 11:53	Analyzed 01/24/23 14:41 Analyzed 01/24/23 01:09	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result 212 sel Range Orga Result <49.8 212	ics (DRO) (Qualifier nics (DRO) Qualifier U	GC) RL 49.8 (GC) RL 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/19/23 11:53 01/19/23 11:53	Analyzed 01/24/23 14:41 Analyzed 01/24/23 01:09 01/24/23 01:09	Dil Fac Dil Fac 1 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Organ Result 212 sel Range Orga Result <49.8 212 <49.8	ics (DRO) (Qualifier nics (DRO) Qualifier U	GC) RL 49.8 (GC) RL 49.8 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/19/23 11:53 01/19/23 11:53	Analyzed 01/24/23 14:41 Analyzed 01/24/23 01:09 01/24/23 01:09 01/24/23 01:09	Dil Fac Dil Fac 1

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01/22/23 17:10

Matrix: Solid

Client Sample Results

 Client: Ensolum
 Job ID: 890-3871-1

 Project/Site: Remuda 4-24-30 CTB
 SDG: 03C1558152

Client Sample ID: SS07

Lab Sample ID: 890-3871-4

Date Collected: 01/16/23 11:00
Date Received: 01/17/23 08:15

Sample Depth: 0.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	195		5.05	mg/Kg			01/22/23 17:28	1

Client Sample ID: SS08

Lab Sample ID: 890-3871-5

Date Collected: 01/16/23 15:05

Matrix: Solid

Date Collected: 01/16/23 15:05 Date Received: 01/17/23 08:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 09:31	
Toluene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 09:31	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 09:31	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:20	01/24/23 09:31	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 09:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:20	01/24/23 09:31	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			01/19/23 16:20	01/24/23 09:31	1
1,4-Difluorobenzene (Surr)	84		70 - 130			01/19/23 16:20	01/24/23 09:31	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/23 13:50	1
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.9		49.9	mg/Kg			01/24/23 14:41	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/19/23 11:53	01/24/23 01:30	1
Diesel Range Organics (Over C10-C28)	70.9		49.9	mg/Kg		01/19/23 11:53	01/24/23 01:30	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/23 11:53	01/24/23 01:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130			01/19/23 11:53	01/24/23 01:30	1
o-Terphenyl	116		70 - 130			01/19/23 11:53	01/24/23 01:30	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble					
Analyte	Posult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	- INGSUIL	Qualifici				Порагса	Allalyzea	Dirita

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Client Sample Results

 Client: Ensolum
 Job ID: 890-3871-1

 Project/Site: Remuda 4-24-30 CTB
 SDG: 03C1558152

Client Sample ID: SS09

Lab Sample ID: 890-3871-6

Date Collected: 01/16/23 15:00

Matrix: Solid

Date Collected: 01/16/23 15:00
Date Received: 01/17/23 08:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 09:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 09:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 09:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/19/23 16:20	01/24/23 09:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 09:59	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/19/23 16:20	01/24/23 09:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130			01/19/23 16:20	01/24/23 09:59	1
1,4-Difluorobenzene (Surr)	72		70 - 130			01/19/23 16:20	01/24/23 09:59	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/24/23 13:50	1
Method: SW846 8015 NM - Diese	•	, , ,	•		_			
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/24/23 14:41	
Analyte	Result <50.0	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U			D	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg			01/24/23 14:41	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg		Prepared	01/24/23 14:41 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 01/19/23 11:53	01/24/23 14:41 Analyzed 01/24/23 01:52	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result sel Range Orga Result <50.0 \$50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/19/23 11:53 01/19/23 11:53	01/24/23 14:41 Analyzed 01/24/23 01:52 01/24/23 01:52	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/19/23 11:53 01/19/23 11:53	01/24/23 14:41 Analyzed 01/24/23 01:52 01/24/23 01:52 01/24/23 01:52	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/19/23 11:53 01/19/23 11:53 01/19/23 11:53 Prepared	01/24/23 14:41 Analyzed 01/24/23 01:52 01/24/23 01:52 01/24/23 01:52 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/19/23 11:53 01/19/23 11:53 01/19/23 11:53 Prepared 01/19/23 11:53	01/24/23 14:41 Analyzed 01/24/23 01:52 01/24/23 01:52 01/24/23 01:52 Analyzed 01/24/23 01:52	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/19/23 11:53 01/19/23 11:53 01/19/23 11:53 Prepared 01/19/23 11:53	01/24/23 14:41 Analyzed 01/24/23 01:52 01/24/23 01:52 01/24/23 01:52 Analyzed 01/24/23 01:52	·

Client Sample ID: SS10 Lab Sample ID: 890-3871-7

Date Collected: 01/16/23 14:55 Date Received: 01/17/23 08:15

Date Received. 01/11/20 00.

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/19/23 16:20	01/24/23 10:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/19/23 16:20	01/24/23 10:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/19/23 16:20	01/24/23 10:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/19/23 16:20	01/24/23 10:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/19/23 16:20	01/24/23 10:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/19/23 16:20	01/24/23 10:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/19/23 16:20	01/24/23 10:26	1

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Matrix: Solid

Matrix: Solid

Client Sample Results

 Client: Ensolum
 Job ID: 890-3871-1

 Project/Site: Remuda 4-24-30 CTB
 SDG: 03C1558152

Client Sample ID: SS10

Lab Sample ID: 890-3871-7

Date Collected: 01/16/23 14:55
Date Received: 01/17/23 08:15

50.1

Sample Depth: 0.5

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	80		70 - 130			01/19/23 16:20	01/24/23 10:26	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/24/23 13:50	1
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/23 14:41	1
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Did	esel Range Orga	nics (DRO)	(GC)					
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/19/23 11:53	01/24/23 02:13	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/19/23 11:53	01/24/23 02:13	1
C10-C28)				99				
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/23 11:53	01/24/23 02:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			01/19/23 11:53	01/24/23 02:13	1
o-Terphenyl	98		70 - 130			01/19/23 11:53	01/24/23 02:13	1

4.98

mg/Kg

01/22/23 17:59

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3871-1

 Project/Site: Remuda 4-24-30 CTB
 SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3856-A-1-D MS	Matrix Spike	113	83	
390-3856-A-1-E MSD	Matrix Spike Duplicate	134 S1+	81	
890-3871-1	SS04	62 S1-	83	
890-3871-2	SS05	141 S1+	82	
390-3871-3	SS06	125	75	
390-3871-4	SS07	149 S1+	86	
390-3871-5	SS08	137 S1+	84	
390-3871-6	SS09	70	72	
890-3871-7	SS10	113	80	
LCS 880-44389/1-A	Lab Control Sample	141 S1+	92	
_CSD 880-44389/2-A	Lab Control Sample Dup	131 S1+	91	
MB 880-44389/5-A	Method Blank	98	75	
MB 880-44394/5-A	Method Blank	93	82	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3871-1	SS04	119	104	
890-3871-1 MS	SS04	117	91	
890-3871-1 MSD	SS04	100	81	
890-3871-2	SS05	133 S1+	111	
890-3871-3	SS06	113	102	
890-3871-4	SS07	102	87	
890-3871-5	SS08	141 S1+	116	
890-3871-6	SS09	112	99	
890-3871-7	SS10	124	98	
LCS 880-44322/2-A	Lab Control Sample	114	105	
LCSD 880-44322/3-A	Lab Control Sample Dup	97	92	
MB 880-44322/1-A	Method Blank	110	106	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-3871-1 Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44389/5-A

Matrix: Solid Analysis Batch: 44514 Client Sample ID: Method Blank

Prep Type: Total/NA

h: 44389

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 01:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 01:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 01:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/19/23 16:20	01/24/23 01:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 01:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/19/23 16:20	01/24/23 01:56	1

MB MB

MD MD

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	70 - 130	01/19/23 16:20	01/24/23 01:56	1
1,4-Difluorobenzene (Surr)	75	70 ₋ 130	01/19/23 16:20	01/24/23 01:56	1

Lab Sample ID: LCS 880-44389/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 44514

Prep Type: Total/NA

Prep Batch: 44389

	Бріке	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1154		mg/Kg		115	70 - 130	
Toluene	0.100	0.08920		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.07834		mg/Kg		78	70 - 130	
m-Xylene & p-Xylene	0.200	0.1634		mg/Kg		82	70 - 130	
o-Xylene	0.100	0.08474		mg/Kg		85	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-44389/2-A

Matrix: Solid

Analysis Batch: 44514

Prep Type: Total/NA Prep Batch: 44389

RPD LCSD LCSD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1216 mg/Kg 122 70 - 130 5 35 Toluene 0.100 0.1022 mg/Kg 102 70 - 130 14 35 Ethylbenzene 0.100 0.09859 mg/Kg 99 70 - 130 23 35 0.200 m-Xylene & p-Xylene 0.2131 mg/Kg 107 70 - 130 26 35 0.100 0.1073 107 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1.4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-3856-A-1-D MS

Matrix: Solid

Analysis Batch: 44514

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 44389

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.100	0.06415	F1	mg/Kg		64	70 - 130	
Toluene	<0.00201	U F2 F1	0.100	0.04187	F1	mg/Kg		42	70 - 130	

QC Sample Results

Job ID: 890-3871-1 Client: Ensolum Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3856-A-1-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 44514

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U F1	0.100	0.05385	F1	mg/Kg		54	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.200	0.05011	F1	mg/Kg		25	70 - 130	
o-Xylene	<0.00201	U F1	0.100	0.06244	F1	mg/Kg		62	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 113 1,4-Difluorobenzene (Surr) 70 - 130 83

Lab Sample ID: 890-3856-A-1-E MSD

Matrix: Solid Analysis Batch: 44514 Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

70 - 130

70 - 130

39

71

Prep Batch: 44389

42

12

Prep Batch: 44389

Sample Sample Spike MSD MSD RPD Result Qualifier %Rec RPD Limit Analyte Added Result Qualifier Limits Unit D 0.06444 F1 Benzene <0.00201 U F1 0.0990 mg/Kg 65 70 - 130 0 Toluene <0.00201 U F2 F1 0.0990 0.06113 F2 F1 mg/Kg 62 70 - 130 37 Ethylbenzene 0.0990 0.06203 F1 63 70 - 130 < 0.00201 U F1 mg/Kg 14

0.07636 F2 F1

0.07037

mg/Kg

mg/Kg

0.198

0.0990

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 134 S1+ 70 - 130 1,4-Difluorobenzene (Surr) 81

< 0.00402

<0.00201 U F1

U F2 F1

Lab Sample ID: MB 880-44394/5-A

Matrix: Solid

m-Xylene & p-Xylene

o-Xylene

Analysis Batch: 44514

Client Sample ID: Method Blank	
Prep Type: Total/NA	

Prep Batch: 44394

MB MB Result Qualifier Analyzed Dil Fac Analyte RL Unit Prepared 01/23/23 12:08 Benzene <0.00200 U 0.00200 mg/Kg 01/19/23 16:42 Toluene <0.00200 U 0.00200 01/19/23 16:42 01/23/23 12:08 mg/Kg Ethylbenzene <0.00200 U 0.00200 mg/Kg 01/19/23 16:42 01/23/23 12:08 m-Xylene & p-Xylene <0.00400 U 0.00400 01/19/23 16:42 01/23/23 12:08 mg/Kg 01/19/23 16:42 01/23/23 12:08 o-Xylene <0.00200 U 0.00200 mg/Kg Xylenes, Total <0.00400 U 0.00400 mg/Kg 01/19/23 16:42 01/23/23 12:08

MB MB Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 93 70 - 130 01/19/23 16:42 01/23/23 12:08 01/19/23 16:42 1,4-Difluorobenzene (Surr) 82 70 - 130 01/23/23 12:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-44322/1-A

Matrix: Solid

Analysis Batch: 44517

Prep Batch: 44322 мв мв

Analyte Result Qualifier RL Unit Prepared Dil Fac <50.0 U 50.0 01/19/23 11:53 01/23/23 22:18 Gasoline Range Organics mg/Kg (GRO)-C6-C10

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Client Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 44322

Client: Ensolum

Job ID: 890-3871-1 SDG: 03C1558152 Project/Site: Remuda 4-24-30 CTB

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-44322/1-	A
Matrix: Solid	

Analysis Batch: 44517

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/23 11:53	01/23/23 22:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/23 11:53	01/23/23 22:18	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	01/19/23 11:53	01/23/23 22:18	1
o-Terphenyl	106		70 - 130	01/19/23 11:53	01/23/23 22:18	1

Lab Sample ID: LCS 880-44322/2-A

Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 44517 Prep Batch: 44322

	эріке	LUS	LUS				70KeC	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	967.5		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1199		mg/Kg		120	70 - 130	
C10-C28)								

LCS LCS

Sample Sample

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-44322/3-A

M

Ar

Matrix: Solid			Prep Typ	e: Total/NA
Analysis Batch: 44517			Prep Ba	atch: 44322
	Spike	LCSD LCSD	%Rec	RPD

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	962.2		mg/Kg		96	70 - 130	1	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1067		mg/Kg		107	70 - 130	12	20	
C10-C28)										

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	92		70 - 130

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Analysis Batch: 44517

Lab Sample ID: 890-3871-1 MS	Client Sample ID: SS04
Matrix: Solid	Prep Type: Total/NA

MS MS

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 998 70 - 130 1270 mg/Kg 127 (GRO)-C6-C10 58.6 998 1128 107 70 - 130 mg/Kg

Spike

Diesel Range Organics (Over C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	91		70 - 130

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Prep Batch: 44322

%Rec

Client: Ensolum Job ID: 890-3871-1 Project/Site: Remuda 4-24-30 CTB

997.5

SDG: 03C1558152

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3871-1 MSD

Analysis Batch: 44517

Gasoline Range Organics

Diesel Range Organics (Over

Matrix: Solid

Client Sample ID: SS04 Prep Type: Total/NA

70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: SS06

Prep Type: Soluble

Pren Batch: 44322

12

5

mg/Kg

C10-C28)

(GRO)-C6-C10

Analyte

MSD MSD

Sample Sample Result Qualifier

<49.9 U

58.6

Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	100		70 - 130			
o-Terphenyl	81		70 - 130			

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44250/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

997

Analysis Batch: 44506

мв мв

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			01/22/23 15:25	1

Lab Sample ID: LCS 880-44250/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble Matrix: Solid**

Analysis Batch: 44506

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	262.2		mg/Kg		105	90 - 110	

Lab Sample ID: LCSD 880-44250/3-A

Matrix: Solid

Analysis Batch: 44506

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	262.8		ma/Ka		105	90 110		20	

Lab Sample ID: 890-3871-3 MS Client Sample ID: SS06

Matrix: Solid

Analysis Batch: 44506

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	82.6	F1	251	374.5	F1	ma/Ka		117	90 110		_

Lab Sample ID: 890-3871-3 MSD

Matrix: Solid

Analysis Batch: 44506											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	82 6	F1	251	365.3	F1	ma/Ka		113	90 - 110	2	20

QC Association Summary

 Client: Ensolum
 Job ID: 890-3871-1

 Project/Site: Remuda 4-24-30 CTB
 SDG: 03C1558152

GC VOA

Prep Batch: 44389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3871-1	SS04	Total/NA	Solid	5035	
890-3871-2	SS05	Total/NA	Solid	5035	
890-3871-3	SS06	Total/NA	Solid	5035	
890-3871-4	SS07	Total/NA	Solid	5035	
890-3871-5	SS08	Total/NA	Solid	5035	
890-3871-6	SS09	Total/NA	Solid	5035	
890-3871-7	SS10	Total/NA	Solid	5035	
MB 880-44389/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44389/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44389/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3856-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3856-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 44394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44394/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 44514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3871-1	SS04	Total/NA	Solid	8021B	44389
890-3871-2	SS05	Total/NA	Solid	8021B	44389
890-3871-3	SS06	Total/NA	Solid	8021B	44389
890-3871-4	SS07	Total/NA	Solid	8021B	44389
890-3871-5	SS08	Total/NA	Solid	8021B	44389
890-3871-6	SS09	Total/NA	Solid	8021B	44389
890-3871-7	SS10	Total/NA	Solid	8021B	44389
MB 880-44389/5-A	Method Blank	Total/NA	Solid	8021B	44389
MB 880-44394/5-A	Method Blank	Total/NA	Solid	8021B	44394
LCS 880-44389/1-A	Lab Control Sample	Total/NA	Solid	8021B	44389
LCSD 880-44389/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44389
890-3856-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	44389
890-3856-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	44389

Analysis Batch: 44642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3871-1	SS04	Total/NA	Solid	Total BTEX	
890-3871-2	SS05	Total/NA	Solid	Total BTEX	
890-3871-3	SS06	Total/NA	Solid	Total BTEX	
890-3871-4	SS07	Total/NA	Solid	Total BTEX	
890-3871-5	SS08	Total/NA	Solid	Total BTEX	
890-3871-6	SS09	Total/NA	Solid	Total BTEX	
890-3871-7	SS10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 44322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3871-1	SS04	Total/NA	Solid	8015NM Prep	
890-3871-2	SS05	Total/NA	Solid	8015NM Prep	
890-3871-3	SS06	Total/NA	Solid	8015NM Prep	
890-3871-4	SS07	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum Job ID: 890-3871-1 Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

GC Semi VOA (Continued)

Prep Batch: 44322 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3871-5	SS08	Total/NA	Solid	8015NM Prep	
890-3871-6	SS09	Total/NA	Solid	8015NM Prep	
890-3871-7	SS10	Total/NA	Solid	8015NM Prep	
MB 880-44322/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44322/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44322/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3871-1 MS	SS04	Total/NA	Solid	8015NM Prep	
890-3871-1 MSD	SS04	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3871-1	SS04	Total/NA	Solid	8015B NM	44322
890-3871-2	SS05	Total/NA	Solid	8015B NM	44322
890-3871-3	SS06	Total/NA	Solid	8015B NM	44322
890-3871-4	SS07	Total/NA	Solid	8015B NM	44322
890-3871-5	SS08	Total/NA	Solid	8015B NM	44322
890-3871-6	SS09	Total/NA	Solid	8015B NM	44322
890-3871-7	SS10	Total/NA	Solid	8015B NM	44322
MB 880-44322/1-A	Method Blank	Total/NA	Solid	8015B NM	44322
LCS 880-44322/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44322
LCSD 880-44322/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44322
890-3871-1 MS	SS04	Total/NA	Solid	8015B NM	44322
890-3871-1 MSD	SS04	Total/NA	Solid	8015B NM	44322

Analysis Batch: 44650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3871-1	SS04	Total/NA	Solid	8015 NM	
890-3871-2	SS05	Total/NA	Solid	8015 NM	
890-3871-3	SS06	Total/NA	Solid	8015 NM	
890-3871-4	SS07	Total/NA	Solid	8015 NM	
890-3871-5	SS08	Total/NA	Solid	8015 NM	
890-3871-6	SS09	Total/NA	Solid	8015 NM	
890-3871-7	SS10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3871-1	SS04	Soluble	Solid	DI Leach	
890-3871-2	SS05	Soluble	Solid	DI Leach	
890-3871-3	SS06	Soluble	Solid	DI Leach	
890-3871-4	SS07	Soluble	Solid	DI Leach	
890-3871-5	SS08	Soluble	Solid	DI Leach	
890-3871-6	SS09	Soluble	Solid	DI Leach	
890-3871-7	SS10	Soluble	Solid	DI Leach	
MB 880-44250/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44250/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44250/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3871-3 MS	SS06	Soluble	Solid	DI Leach	
890-3871-3 MSD	SS06	Soluble	Solid	DI Leach	

QC Association Summary

 Client: Ensolum
 Job ID: 890-3871-1

 Project/Site: Remuda 4-24-30 CTB
 SDG: 03C1558152

HPLC/IC

Analysis Batch: 44506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3871-1	SS04	Soluble	Solid	300.0	44250
890-3871-2	SS05	Soluble	Solid	300.0	44250
890-3871-3	SS06	Soluble	Solid	300.0	44250
890-3871-4	SS07	Soluble	Solid	300.0	44250
890-3871-5	SS08	Soluble	Solid	300.0	44250
890-3871-6	SS09	Soluble	Solid	300.0	44250
890-3871-7	SS10	Soluble	Solid	300.0	44250
MB 880-44250/1-A	Method Blank	Soluble	Solid	300.0	44250
LCS 880-44250/2-A	Lab Control Sample	Soluble	Solid	300.0	44250
LCSD 880-44250/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44250
890-3871-3 MS	SS06	Soluble	Solid	300.0	44250
890-3871-3 MSD	SS06	Soluble	Solid	300.0	44250

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Date Received: 01/17/23 08:15

Client: Ensolum Project/Site: Remuda 4-24-30 CTB

SDG: 03C1558152

Job ID: 890-3871-1

Client Sample ID: SS04 Lab Sample ID: 890-3871-1 Date Collected: 01/16/23 10:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	44389	01/19/23 16:20	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 06:19	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			44642	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44650	01/24/23 14:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44322	01/19/23 11:53	DM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 23:22	AJ	EET MIC
Soluble	Leach	DI Leach			4.95 g	50 mL	44250	01/18/23 12:17	KS	EET MIC
Soluble	Analysis	300.0		1			44506	01/22/23 16:57	CH	EET MI

Client Sample ID: SS05 Lab Sample ID: 890-3871-2

Date Collected: 01/16/23 10:50 Matrix: Solid

Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 08:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44642	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44650	01/24/23 14:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44322	01/19/23 11:53	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/24/23 00:26	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44250	01/18/23 12:17	KS	EET MID
Soluble	Analysis	300.0		1			44506	01/22/23 17:03	CH	EET MID

Client Sample ID: SS06 Lab Sample ID: 890-3871-3 Date Collected: 01/16/23 10:55 **Matrix: Solid**

Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 08:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44642	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44650	01/24/23 14:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44322	01/19/23 11:53	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/24/23 00:48	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44250	01/18/23 12:17	KS	EET MID
Soluble	Analysis	300.0		1			44506	01/22/23 17:10	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-3871-4

Date Collected: 01/16/23 11:00 Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 09:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44642	01/24/23 13:50	AJ	EET MID

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Matrix: Solid

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Client: Ensolum

Project/Site: Remuda 4-24-30 CTB

SDG: 03C1558152

Job ID: 890-3871-1

Client Sample ID: SS07 Lab Sample ID: 890-3871-4

Matrix: Solid

Date Collected: 01/16/23 11:00 Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			44650	01/24/23 14:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44322	01/19/23 11:53	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/24/23 01:09	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44250	01/18/23 12:17	KS	EET MID
Soluble	Analysis	300.0		1			44506	01/22/23 17:28	CH	EET MID

Client Sample ID: SS08 Lab Sample ID: 890-3871-5

Date Collected: 01/16/23 15:05 Matrix: Solid

Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 09:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44642	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44650	01/24/23 14:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44322	01/19/23 11:53	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/24/23 01:30	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	44250	01/18/23 12:17	KS	EET MID
Soluble	Analysis	300.0		1			44506	01/22/23 17:34	CH	EET MID

Client Sample ID: SS09 Lab Sample ID: 890-3871-6

Date Collected: 01/16/23 15:00 Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 09:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44642	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44650	01/24/23 14:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44322	01/19/23 11:53	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/24/23 01:52	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44250	01/18/23 12:17	KS	EET MID
Soluble	Analysis	300.0		1			44506	01/22/23 17:53	CH	EET MID

Client Sample ID: SS10 Lab Sample ID: 890-3871-7

Date Collected: 01/16/23 14:55 Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 10:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44642	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44650	01/24/23 14:41	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	44322 44517	01/19/23 11:53 01/24/23 02:13	DM AJ	EET MID EET MID

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Matrix: Solid

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Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-3871-1 Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

Client Sample ID: SS10 Lab Sample ID: 890-3871-7

Date Collected: 01/16/23 14:55 Matrix: Solid

Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	44250	01/18/23 12:17	KS	EET MID
Soluble	Analysis	300.0		1			44506	01/22/23 17:59	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3871-1 Project/Site: Remuda 4-24-30 CTB

SDG: 03C1558152

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
0 ,	he following analytes are included in this report, but the la		ied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: Ensolum

Job ID: 890-3871-1

Project/Site: Remuda 4-24-30 CTB

SDG: 03C1558152

Project/Site: Remuda 4-24-30 CTB SDG: 03C1558152

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Ensolum

Project/Site: Remuda 4-24-30 CTB

Job ID: 890-3871-1

SDG: 03C1558152

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3871-1	SS04	Solid	01/16/23 10:45	01/17/23 08:15	0.5
890-3871-2	SS05	Solid	01/16/23 10:50	01/17/23 08:15	0.5
890-3871-3	SS06	Solid	01/16/23 10:55	01/17/23 08:15	0.5
890-3871-4	SS07	Solid	01/16/23 11:00	01/17/23 08:15	0.5
890-3871-5	SS08	Solid	01/16/23 15:05	01/17/23 08:15	0.5
890-3871-6	SS09	Solid	01/16/23 15:00	01/17/23 08:15	0.5
890-3871-7	SS10	Solid	01/16/23 14:55	01/17/23 08:15	0.5

Chain of Custody

				6				5
				17.23 815 2	-	Chy and	BOO	
	Signature) Date/Time	re) Received by: (Signature)	Relinquished by: (Signature)	Date/Time	e)	Received by: (Signature)	Signature)	Relinquished by:
			pounce: glyanure of this document and reinquariment of an injury control of service. Signature of the client if such losses are due to circumstances beyond the control of service. Eurofins, Yearco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins, Yearco, an information of the cost of samples and shall not assume any responsibility for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negro	ises incurred by the client if su urofins Xenco, but not analyz	onsibility for any losses or exper for each sample submitted to E	es and shall not assume any responses of \$5	be liable only for the cost of sample to charge of \$85.00 will be applied to	of Eurofins Xenco will of Eurofins Xenco will of Eurofins Xenco. A minimum
<u></u>		and conditions	have clearly as the document of a make constitutes a valid nurchase order from client company to Eurofins Venco. Its affiliates and subcontractors. It assigns standard terms	fins Xenco. its affiliates and su	ler from client company to Euro	s condthutes a valid nurchase or	mont and reline: Johnsont of cample	Nation Clause and of this document
	Ag SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471	Mn Mo Ni K Se Ag Tl U	TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Fe Pb Mg	As Ba Be B Cd (Sb As Ba Be Cd Cr	PLP 6010 : 8RCRA Sk	8RCR	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010
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			7	- June				
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	1					2021		2508
	Cost Center:					1100		L.U.S.S
-						1055		5506
	nAPP2233351770							5055
	Incident #:			X X X	0.5/6	1/16/23 1045	S	8504
	Sample Comments			BT Ch TF	Depth Grab/ # of Comp Cont	Date Time Sampled Sampled	ication Matrix	Sample identification
	NaOH+Ascorbic Acid: SAPC	_		101	2.4	Corrected Temperature:		Total Containers:
	Zn Acetate+NaOH: Zn	or chaica)	O Committee		9,6	Temperature Reading:	Yes No (N/A)	Sample Custody Seals:
	Na ₂ 5 ₂ O ₃ : Na5O ₃		890-3871 Chain o	de		Correction Factor:	Yes No M	Cooler Custody Seals:
	NaHSO 4: NABIS			3	aram	Thermometer ID:	(Ye) No	Samples Received Intact:
	H ₃ PO ₄ : HP				Yes No	Yes No Wet Ice:	Temp Blank:	SAMPLE RECEIPT
	H ₂ SO ₄ : H ₂ NaOH: Na				_	-		PO#:
	HCL: HC HNO 3: HN				TAT starts the day received by	-	Mercality Roberts	Sampler's Name:
	Cool: Cool MeOH: Me					.88134 Due Date:	32.25359103.88134	Project Location:
	None: NO DI Water: H ₂ O				Rush Code	WRout	0301558152	er:
	Preservative Codes	ST	ANALYSIS REQUEST		Turn Around		Remuda 4-24-30 (TB	Name:
	ADaPT Other:	Deliverables: EDD	3	bb-lill@ensolum.com		57 Email:	989.854.0852	Phone:
	IIII PST/UST TRRP Level IV	Reporting: Level II Level III	anshad, NM 88220	Carisback	City, State ZIP:	882	-	City, State ZIP:
]	State of Project:	Greene St	3104 E	Address:	Parks Hwy		Address:
	P Brownfields RRC Superfund	Program: UST/PST PRP	Energy	XTO E	Company Name:	LLC	KIRL .	Company Name:
	Work Order Comments	Work	Snamett Green	Garres	Bill to: (if different)		Ben Belill	Project Manager:
_	www.xenco.com Page of	www.xer	AN (5.75) 100-51-29	(1000), INM (3/3) 382/330, Calibbad, INM (3/3) 300-3188	HODDS, NWI (C			
			X (806) 794-1296	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, TX (9		Xenco	
	ler No:	Work Order No:	, TX (210) 509-3334	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Midland, TX (43	Environment lesting		
			X (214) 902-0300	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	Houston, TX		_	eurotins
			()				1	

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3871-1 SDG Number: 03C1558152

Login Number: 3871 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	N/A	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 8

Job Number: 890-3871-1 SDG Number: 03C1558152

Login Number: 3871 List Source: Eurofins Midland
List Number: 2 List Creation: 01/18/23 10:51 AM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 2/2/2023 3:05:39 PM Revision 1

JOB DESCRIPTION

Remuda 4.24.30 CTB SDG NUMBER 03C1558152

JOB NUMBER

890-3870-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/2/2023 3:05:39 PM Revision 1

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Client: Ensolum
Project/Site: Remuda 4.24.30 CTB
Laboratory Job ID: 890-3870-1
SDG: 03C1558152

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Definitions/Glossary

Client: Ensolum Job ID: 890-3870-1 Project/Site: Remuda 4.24.30 CTB

SDG: 03C1558152

Qualifiers

GC VOA Qualifier

Qualifier Description F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** *1 LCS/LCSD RPD exceeds control limits.

S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid Colony Forming Unit **CFU** Contains No Free Liquid CNF

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Remuda 4.24.30 CTB

Job ID: 890-3870-1

SDG: 03C1558152

Job ID: 890-3870-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3870-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 2/1/2023. The report (revision 1) is being revised due to: Per client email, job narrative section missing in final report.

Receipt

The samples were received on 1/17/2023 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-3870-1), PH01A (890-3870-2), PH01B (890-3870-3), PH01C (890-3870-4), PH02A (890-3870-5), PH02 (890-3870-6), PH02B (890-3870-7), PH02C (890-3870-8), PH03 (890-3870-9), PH03A (890-3870-10), PH03B (890-3870-11) and PH03C (890-3870-12).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-44392 and analytical batch 880-44509 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH01 (890-3870-1), PH01A (890-3870-2), PH02 (890-3870-6) and PH02B (890-3870-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Ensolum Job ID: 890-3870-1

Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: PH01 Lab Sample ID: 890-3870-1 Date Collected: 01/16/23 13:55

Matrix: Solid Date Received: 01/17/23 08:15

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/19/23 16:32	01/23/23 13:20	1
Toluene	0.00967		0.00201	mg/Kg		01/19/23 16:32	01/23/23 13:20	1
Ethylbenzene	0.0184		0.00201	mg/Kg		01/19/23 16:32	01/23/23 13:20	1
m-Xylene & p-Xylene	0.0689	F1	0.00402	mg/Kg		01/19/23 16:32	01/23/23 13:20	1
o-Xylene	0.0330	F1	0.00201	mg/Kg		01/19/23 16:32	01/23/23 13:20	1
Xylenes, Total	0.102	F1	0.00402	mg/Kg		01/19/23 16:32	01/23/23 13:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130			01/19/23 16:32	01/23/23 13:20	1
1,4-Difluorobenzene (Surr)	93		70 - 130			01/19/23 16:32	01/23/23 13:20	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.130		0.00402	mg/Kg			01/23/23 16:53	1
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/23 14:41	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		01/19/23 11:50	01/23/23 18:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/19/23 11:50	01/23/23 18:28	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/23 11:50	01/23/23 18:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			01/19/23 11:50	01/23/23 18:28	1
o-Terphenyl	76		70 - 130			01/19/23 11:50	01/23/23 18:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.86	5.04	mg/Kg			01/20/23 23:02	1

Client Sample ID: PH01A Lab Sample ID: 890-3870-2 Date Collected: 01/16/23 14:00 **Matrix: Solid**

Date Received: 01/17/23 08:15

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 13:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 13:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 13:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 13:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 13:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 13:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130			01/19/23 16:32	01/23/23 13:41	1

 Client: Ensolum
 Job ID: 890-3870-1

 Project/Site: Remuda 4.24.30 CTB
 SDG: 03C1558152

roject/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: PH01A

Date Collected: 01/16/23 14:00

Date Received: 01/17/23 08:15

Lab Sample ID: 890-3870-2

Matrix: Solid

Sample Depth: 2'

Surrogate		ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	80	70 - 130	01/19/23 16:32	01/23/23 13:41	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/23/23 16:53	1

ı	Mathadi CIMOAC OOAE NIM Dia	cal Dange Organica (DDO) (CC)	
ı	Method: SW846 8015 NM - Die:	sei Rande Ordanics (DRO) (GC)	

Analyte		Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TP	H	<50.0	U	50.0	mg/Kg			01/24/23 14:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

		9	(-:-)					
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0 €	U *1	50.0	mg/Kg		01/19/23 11:50	01/23/23 18:51	1
Diesel Range Organics (Over C10-C28)	<50.0 l	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 18:51	1
Oll Range Organics (Over C28-C36)	<50.0 l	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 18:51	1
Surrogate	%Recovery (Oualifier	l imite			Propared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74	70 - 130	01/19/23 11:50	01/23/23 18:51	1
o-Terphenyl	62 S1-	70 - 130	01/19/23 11:50	01/23/23 18:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			01/20/23 23:08	1

Client Sample ID: PH01B

Date Collected: 01/16/23 14:10

Lab Sample ID: 890-3870-3

Matrix: Solid

Date Collected: 01/16/23 14:10 Date Received: 01/17/23 08:15

Sample Depth: 4'

Mothod: CIMOAC 9024D	Volatila Organia Compounde (C)	\sim

Method: Syvo46 6021B - VC	name Organic	Compoun	us (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 14:02	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 14:02	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 14:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 14:02	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 14:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 14:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			01/19/23 16:32	01/23/23 14:02	1
1,4-Difluorobenzene (Surr)	111		70 - 130			01/19/23 16:32	01/23/23 14:02	1

l Method: TΔI	SOP Total BTFX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/23/23 16:53	1

Analyte		ialifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			01/24/23 14:41	1

Eurofins Carlsbad

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Matrix: Solid

Matrix: Solid

Client: Ensolum Job ID: 890-3870-1

Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: PH01B Lab Sample ID: 890-3870-3 Date Collected: 01/16/23 14:10 Date Received: 01/17/23 08:15

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		01/19/23 11:50	01/23/23 19:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/19/23 11:50	01/23/23 19:14	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/23 11:50	01/23/23 19:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			01/19/23 11:50	01/23/23 19:14	1
o-Terphenyl	74		70 - 130			01/19/23 11:50	01/23/23 19:14	1

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.03 U 5.03 01/20/23 23:26 mg/Kg Lab Sample ID: 890-3870-5

Client Sample ID: PH02A Date Collected: 01/16/23 12:50

%Recovery Qualifier

66 S1-

57 S1-

Date Received: 01/17/23 08:15

Sample Depth: 2'

Surrogate

1-Chlorooctane o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:32	01/23/23 14:23	
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:32	01/23/23 14:23	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:32	01/23/23 14:23	•
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/19/23 16:32	01/23/23 14:23	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:32	01/23/23 14:23	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/19/23 16:32	01/23/23 14:23	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			01/19/23 16:32	01/23/23 14:23	
1.4-Difluorobenzene (Surr)	106		70 - 130			01/19/23 16:32	01/23/23 14:23	1
Method: TAL SOP Total BTEX Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Method: TAL SOP Total BTE) Analyte Total BTEX	<0.00399	Qualifier U	RL 0.00399	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/23/23 16:53	Dil Fac
Method: TAL SOP Total BTEX Analyte	Result <0.00399	Qualifier U	RL 0.00399		<u>D</u>	Prepared Prepared		Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di	Result <0.00399	Qualifier U Organics (Qualifier	RL 0.00399 DRO) (GC)	mg/Kg	_ =	<u> </u>	01/23/23 16:53	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di Analyte	Result <0.00399 Resel Range (Result <49.9	Qualifier U Organics (Qualifier U	RL 0.00399 DRO) (GC) RL 49.9	mg/Kg Unit	_ =	<u> </u>	01/23/23 16:53 Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH	Result <0.00399 Sesel Range (Result <49.9 Diesel Range	Qualifier U Organics (Qualifier U	RL 0.00399 DRO) (GC) RL 49.9	mg/Kg Unit	_ =	<u> </u>	01/23/23 16:53 Analyzed	Dil Fa
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - I Analyte Gasoline Range Organics	Result <0.00399 Sesel Range (Result <49.9 Diesel Range	Qualifier U Organics (Qualifier U Organics (RL 0.00399 DRO) (GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	01/23/23 16:53 Analyzed 01/24/23 14:41 Analyzed	Dil Fa
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - I	Result <0.00399 Sesel Range (Result <49.9 Diesel Range Result	Qualifier U Organics (Qualifier U Organics Qualifier U Organics Qualifier U *1	RL 0.00399 DRO) (GC) RL 49.9	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared 01/19/23 11:50	01/23/23 16:53 Analyzed 01/24/23 14:41 Analyzed	

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Analyzed

01/19/23 11:50 01/23/23 19:38

01/19/23 11:50 01/23/23 19:38

Prepared

Limits

70 - 130

70 - 130

Dil Fac

Client Sample Results

Client: Ensolum Job ID: 890-3870-1

Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: PH02A Date Collected: 01/16/23 12:50 Date Received: 01/17/23 08:15

Lab Sample ID: 890-3870-5

Matrix: Solid

Sample Depth: 2'

Method: EPA 300.0 - Anions, I	on Chromatography -	- Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.1	5.00	mg/Kg			01/20/23 23:33	1

Client Sample ID: PH02 Lab Sample ID: 890-3870-6

Date Collected: 01/16/23 12:45 **Matrix: Solid**

Date Received: 01/17/23 08:15

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 14:44	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 14:44	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 14:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 14:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 14:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 14:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	40	S1-	70 - 130			01/19/23 16:32	01/23/23 14:44	1
1,4-Difluorobenzene (Surr)	91		70 - 130			01/19/23 16:32	01/23/23 14:44	1

Mictiod. IAL OOI Total DILA	TOTAL DIE	A Gaicalati						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/23/23 16:53	1

Method: SW846 8015 NM - Diesel	Range (Organics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/23 14:41	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		01/19/23 11:50	01/23/23 20:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 20:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 20:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	34	S1-	70 - 130			01/19/23 11:50	01/23/23 20:03	1
o-Terphenyl	25	S1-	70 - 130			01/19/23 11:50	01/23/23 20:03	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.7		4.98	mg/Kg			01/20/23 23:39	1

Client: Ensolum Job ID: 890-3870-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: PH02B

Lab Sample ID: 890-3870-7 Date Collected: 01/16/23 13:00 Matrix: Solid Date Received: 01/17/23 08:15

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 15:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 15:05	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 15:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 15:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 15:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 15:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	43	S1-	70 - 130			01/19/23 16:32	01/23/23 15:05	1
1,4-Difluorobenzene (Surr)	85		70 - 130			01/19/23 16:32	01/23/23 15:05	1

Method: TAL SOP Total BTEX -	· Total BTE	X Calculati	on					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/23/23 16:53	1

Method: SW846 8015B NM - D Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		01/19/23 11:50	01/23/23 20:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 20:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 20:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			01/19/23 11:50	01/23/23 20:25	1
o-Terphenyl	82		70 - 130			01/19/23 11:50	01/23/23 20:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualific	er RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	15.0	4.97	mg/Kg			01/20/23 23:45	1	

Lab Sample ID: 890-3870-9 **Client Sample ID: PH03** Date Collected: 01/16/23 13:20 Matrix: Solid

Date Received: 01/17/23 08:15

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/19/23 16:32	01/23/23 15:26	1
Toluene	0.00867		0.00201	mg/Kg		01/19/23 16:32	01/23/23 15:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/19/23 16:32	01/23/23 15:26	1
m-Xylene & p-Xylene	0.0126		0.00402	mg/Kg		01/19/23 16:32	01/23/23 15:26	1
o-Xylene	0.00989		0.00201	mg/Kg		01/19/23 16:32	01/23/23 15:26	1
Xylenes, Total	0.0225		0.00402	mg/Kg		01/19/23 16:32	01/23/23 15:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			01/19/23 16:32	01/23/23 15:26	1
1.4-Difluorobenzene (Surr)	111		70 - 130			01/19/23 16:32	01/23/23 15:26	1

Client: Ensolum Job ID: 890-3870-1

Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: PH03 Lab Sample ID: 890-3870-9 Date Collected: 01/16/23 13:20 Matrix: Solid

Date Received: 01/17/23 08:15 Sample Depth: 1'

Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0312		0.00402	mg/Kg			01/23/23 16:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		01/19/23 11:50	01/23/23 20:48	1
Diesel Range Organics (Over C10-C28)	82.3		49.9	mg/Kg		01/19/23 11:50	01/23/23 20:48	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/23 11:50	01/23/23 20:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			01/19/23 11:50	01/23/23 20:48	1
o-Terphenyl	78		70 - 130			01/19/23 11:50	01/23/23 20:48	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.8		5.02	mg/Kg			01/20/23 23:51	1

Client Sample ID: PH03A Lab Sample ID: 890-3870-10 Date Collected: 01/16/23 13:25 **Matrix: Solid**

Date Received: 01/17/23 08:15

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 15:47	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 15:47	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 15:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 15:47	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 15:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 15:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/19/23 16:32	01/23/23 15:47	1
1,4-Difluorobenzene (Surr)	76		70 - 130			01/19/23 16:32	01/23/23 15:47	1

Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/23/23 16:53	1

		-			_		· · · · · · · · · · · · · · · · · · ·	
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/23/23 16:53	1
 Method: SW846 8015B NM - I	Diesel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		01/19/23 11:50	01/23/23 21:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/19/23 11:50	01/23/23 21:10	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/23 11:50	01/23/23 21:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			01/19/23 11:50	01/23/23 21:10	1
o-Terphenyl	89		70 - 130			01/19/23 11:50	01/23/23 21:10	1

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2/2/2023 (Rev. 1)

Job ID: 890-3870-1

Client: Ensolum Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: PH03A Lab Sample ID: 890-3870-10 **Matrix: Solid**

Date Collected: 01/16/23 13:25 Date Received: 01/17/23 08:15 Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 5.01 mg/Kg 01/20/23 23:57 24.3

Client Sample ID: PH03B Lab Sample ID: 890-3870-11

Date Collected: 01/16/23 13:35 Matrix: Solid

Date Received: 01/17/23 08:15

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 16:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 16:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 16:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 16:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 16:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			01/19/23 16:32	01/23/23 16:07	1
1,4-Difluorobenzene (Surr)	115		70 - 130			01/19/23 16:32	01/23/23 16:07	1

Method: TAL SOP Total BTEX	- Total BTEX	Calculati	on					
Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	J	0.00398	mg/Kg			01/23/23 16:53	1

Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		01/19/23 11:50	01/23/23 21:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 21:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 21:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			01/19/23 11:50	01/23/23 21:32	1
o-Terphenyl	90		70 - 130			01/19/23 11:50	01/23/23 21:32	1

Method: EPA 300.0 - Anions, Id	on Chromatography -	Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.5	4.98	mg/Kg			01/21/23 00:03	1

Surrogate Summary

Client: Ensolum Job ID: 890-3870-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Perce	ent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3870-1	PH01	58 S1-	93	
890-3870-1 MS	PH01	82	105	
890-3870-1 MSD	PH01	91	102	
890-3870-2	PH01A	51 S1-	80	
890-3870-3	PH01B	108	111	
890-3870-5	PH02A	108	106	
890-3870-6	PH02	40 S1-	91	
890-3870-7	PH02B	43 S1-	85	
890-3870-9	PH03	100	111	
890-3870-10	PH03A	110	76	
890-3870-11	PH03B	105	115	
LCS 880-44392/1-A	Lab Control Sample	83	106	
LCSD 880-44392/2-A	Lab Control Sample Dup	86	104	
MB 880-44392/5-A	Method Blank	87	103	
Surrogate Legend				
BFB = 4-Bromofluorob	enzene (Surr)			
DFBZ = 1,4-Difluorobe				

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surre	ogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3866-A-1-C MS	Matrix Spike	123	84	
890-3866-A-1-D MSD	Matrix Spike Duplicate	123	87	
890-3870-1	PH01	87	76	
890-3870-2	PH01A	74	62 S1-	
890-3870-3	PH01B	82	74	
890-3870-5	PH02A	66 S1-	57 S1-	
890-3870-6	PH02	34 S1-	25 S1-	
890-3870-7	PH02B	95	82	
890-3870-9	PH03	84	78	
890-3870-10	PH03A	102	89	
890-3870-11	PH03B	103	90	
LCS 880-44321/2-A	Lab Control Sample	106	98	
LCSD 880-44321/3-A	Lab Control Sample Dup	98	92	
MB 880-44321/1-A	Method Blank	109	104	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3870-1 Project/Site: Remuda 4.24.30 CTB

SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44392/5-A

Lab Sample ID: LCS 880-44392/1-A

Matrix: Solid

Analysis Batch: 44509

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 44392

		VID						
Analyte	Result 0	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	J	0.00200	mg/Kg		01/19/23 16:32	01/23/23 12:59	1
Toluene	<0.00200 L	J	0.00200	mg/Kg		01/19/23 16:32	01/23/23 12:59	1
Ethylbenzene	<0.00200 L	J	0.00200	mg/Kg		01/19/23 16:32	01/23/23 12:59	1
m-Xylene & p-Xylene	<0.00400 L	j	0.00400	mg/Kg		01/19/23 16:32	01/23/23 12:59	1
o-Xylene	<0.00200 L	J	0.00200	mg/Kg		01/19/23 16:32	01/23/23 12:59	1
Xylenes, Total	<0.00400 L	J	0.00400	mg/Kg		01/19/23 16:32	01/23/23 12:59	1
	40.4	WD						

MB MB

MD MD

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87	70 - 130	01/19/23 16:32	01/23/23 12:59	1
1,4-Difluorobenzene (Surr)	103	70 - 130	01/19/23 16:32	01/23/23 12:59	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Solid Prep Batch: 44392 **Analysis Batch: 44509**

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier I	Unit D	%Rec	Limits	
Benzene	0.100	0.1159		mg/Kg	116	70 - 130	
Toluene	0.100	0.1006	ı	mg/Kg	101	70 - 130	
Ethylbenzene	0.100	0.1024	ı	mg/Kg	102	70 - 130	
m-Xylene & p-Xylene	0.200	0.1769	1	mg/Kg	88	70 - 130	
o-Xylene	0.100	0.08972	ı	mg/Kg	90	70 - 130	
I and the second							

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-44392/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 44509

Prep Type: Total/NA Prep Batch: 44392

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1196		mg/Kg		120	70 - 130	3	35	
Toluene	0.100	0.1044		mg/Kg		104	70 - 130	4	35	
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.1851		mg/Kg		93	70 - 130	5	35	
o-Xylene	0.100	0.09395		mg/Kg		94	70 - 130	5	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1.4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-3870-1 MS

Matrix: Solid

Analysis Batch: 44509

Client Sample ID: PH01 Prep Type: Total/NA

Prep Batch: 44392

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	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0998	0.1040		mg/Kg		104	70 - 130	
Toluene	0.00967		0.0998	0.09206		mg/Kg		83	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-3870-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3870-1 MS **Matrix: Solid**

Analysis Batch: 44509

Client Sample ID: PH01 Prep Type: Total/NA Prep Batch: 44392

	Sample S	Sample	Spike	MS	MS				%Rec	
Analyte	Result C	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	0.0184		0.0998	0.09024		mg/Kg		72	70 - 130	
m-Xylene & p-Xylene	0.0689 F	1	0.200	0.1594	F1	mg/Kg		45	70 - 130	
o-Xylene	0.0330 F	1	0.0998	0.08160	F1	mg/Kg		49	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-3870-1 MSD

Matrix: Solid

Analysis Batch: 44509

Client Sample ID: PH01 Prep Type: Total/NA Prep Batch: 44392

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00201 U 0.100 0.1125 mg/Kg 112 70 - 130 8 35 Toluene 0.00967 0.100 0.1061 96 70 - 130 35 mg/Kg 14 101 Ethylbenzene 0.0184 0.100 0.1197 mg/Kg 70 - 130 28 35 m-Xylene & p-Xylene 0.0689 F1 0.200 0.2173 mg/Kg 74 70 - 130 31 35 0.0330 F1 0.100 70 70 - 130 24 o-Xylene 0.1035 mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-44321/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA Prep Batch: 44321 **Analysis Batch: 44517** MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 10:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 10:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 10:22	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	01/19/23 11:50	01/23/23 10:22	1
o-Terphenyl	104		70 - 130	01/19/23 11:50	01/23/23 10:22	1

Lab Sample ID: LCS 880-44321/2-A

M

Matrix: Solid Analysis Batch: 44517								e: Total/NA atch: 44321
raidiyolo Zatom 11011	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	936.4		mg/Kg		94	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1113		mg/Kg		111	70 - 130	

C10-C28)

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Client Sample ID: Lab Control Sample

Client: Ensolum Job ID: 890-3870-1 SDG: 03C1558152 Project/Site: Remuda 4.24.30 CTB

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-44321/2-A

Matrix: Solid

Analysis Batch: 44517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44321

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LCS LCS

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 106 70 - 130 o-Terphenyl 98 70 - 130

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-44321/3-A **Prep Type: Total/NA**

Matrix: Solid

Prep Batch: 44321 **Analysis Batch: 44517** LCSD LCSD %Rec **RPD** Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 717.4 *1 mg/Kg 72 70 - 130 26 20 (GRO)-C6-C10

1061

mg/Kg

1000

Diesel Range Organics (Over C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 98 70 - 130 o-Terphenyl 92

Lab Sample ID: 890-3866-A-1-C MS

Matrix: Solid

Analysis Batch: 44517

Prep Type: Total/NA

Prep Batch: 44321

Sample Sample Spike MS MS %Rec Result Qualifier Added Limits **Analyte** Result Qualifier Unit D %Rec

Diesel Range Organics (Over 75.5 998 917.4 mg/Kg 84 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 123 70 - 130 o-Terphenyl 84

Lab Sample ID: 890-3866-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 44517

Prep Type: Total/NA

106

70 - 130

Client Sample ID: Matrix Spike

Prep Batch: 44321 RPD %Rec

MSD MSD Spike Sample Sample Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit mg/Kg Diesel Range Organics (Over 75.5 997 923.3 85 70 - 130

C10-C28)

MSD MSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 123 70 - 130o-Terphenyl 87 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44244/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44497

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 01/20/23 20:59 mg/Kg

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20

Released to Imaging: 3/26/2025 8:37:43 AM

QC Sample Results

Client: Ensolum Job ID: 890-3870-1 Project/Site: Remuda 4.24.30 CTB

SDG: 03C1558152

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-44244/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44497 LCS LCS Spike %Rec Analyte Added Result Qualifier Unit Limits %Rec

Chloride 250 267.2 mg/Kg 107 90 - 110 Lab Sample ID: LCSD 880-44244/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid **Prep Type: Soluble Analysis Batch: 44497**

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 250 90 - 110 Chloride 268.6 mg/Kg 107

Lab Sample ID: 880-23720-A-71-B MS **Client Sample ID: Matrix Spike**

Matrix: Solid Prep Type: Soluble

Analysis Batch: 44497 Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Chloride 154 248 384.5 mg/Kg

Lab Sample ID: 880-23720-A-71-C MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44497

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit

Chloride 154 248 385.1 mg/Kg 93 90 - 110

Client: Ensolum

Project/Site: Remuda 4.24.30 CTB

Job ID: 890-3870-1 SDG: 03C1558152

GC VOA

Prep Batch: 44392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3870-1	PH01	Total/NA	Solid	5035	
890-3870-2	PH01A	Total/NA	Solid	5035	
890-3870-3	PH01B	Total/NA	Solid	5035	
890-3870-5	PH02A	Total/NA	Solid	5035	
890-3870-6	PH02	Total/NA	Solid	5035	
890-3870-7	PH02B	Total/NA	Solid	5035	
890-3870-9	PH03	Total/NA	Solid	5035	
890-3870-10	PH03A	Total/NA	Solid	5035	
890-3870-11	PH03B	Total/NA	Solid	5035	
MB 880-44392/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44392/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44392/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3870-1 MS	PH01	Total/NA	Solid	5035	
890-3870-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 44509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3870-1	PH01	Total/NA	Solid	8021B	44392
890-3870-2	PH01A	Total/NA	Solid	8021B	44392
890-3870-3	PH01B	Total/NA	Solid	8021B	44392
890-3870-5	PH02A	Total/NA	Solid	8021B	44392
890-3870-6	PH02	Total/NA	Solid	8021B	44392
890-3870-7	PH02B	Total/NA	Solid	8021B	44392
890-3870-9	PH03	Total/NA	Solid	8021B	44392
890-3870-10	PH03A	Total/NA	Solid	8021B	44392
890-3870-11	PH03B	Total/NA	Solid	8021B	44392
MB 880-44392/5-A	Method Blank	Total/NA	Solid	8021B	44392
LCS 880-44392/1-A	Lab Control Sample	Total/NA	Solid	8021B	44392
LCSD 880-44392/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44392
890-3870-1 MS	PH01	Total/NA	Solid	8021B	44392
890-3870-1 MSD	PH01	Total/NA	Solid	8021B	44392

Analysis Batch: 44595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3870-1	PH01	Total/NA	Solid	Total BTEX	
890-3870-2	PH01A	Total/NA	Solid	Total BTEX	
890-3870-3	PH01B	Total/NA	Solid	Total BTEX	
890-3870-5	PH02A	Total/NA	Solid	Total BTEX	
890-3870-6	PH02	Total/NA	Solid	Total BTEX	
890-3870-7	PH02B	Total/NA	Solid	Total BTEX	
890-3870-9	PH03	Total/NA	Solid	Total BTEX	
890-3870-10	PH03A	Total/NA	Solid	Total BTEX	
890-3870-11	PH03B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 44321

Lab Sample ID 890-3870-1	Client Sample ID PH01	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
890-3870-2	PH01A	Total/NA	Solid	8015NM Prep	
890-3870-3	PH01B	Total/NA	Solid	8015NM Prep	

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Client: Ensolum

Project/Site: Remuda 4.24.30 CTB

Job ID: 890-3870-1 SDG: 03C1558152

GC Semi VOA (Continued)

Prep Batch: 44321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3870-5	PH02A	Total/NA	Solid	8015NM Prep	
890-3870-6	PH02	Total/NA	Solid	8015NM Prep	
890-3870-7	PH02B	Total/NA	Solid	8015NM Prep	
890-3870-9	PH03	Total/NA	Solid	8015NM Prep	
890-3870-10	PH03A	Total/NA	Solid	8015NM Prep	
890-3870-11	PH03B	Total/NA	Solid	8015NM Prep	
MB 880-44321/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44321/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44321/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3866-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3866-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3870-1	PH01	Total/NA	Solid	8015B NM	44321
890-3870-2	PH01A	Total/NA	Solid	8015B NM	44321
890-3870-3	PH01B	Total/NA	Solid	8015B NM	44321
890-3870-5	PH02A	Total/NA	Solid	8015B NM	44321
890-3870-6	PH02	Total/NA	Solid	8015B NM	44321
890-3870-7	PH02B	Total/NA	Solid	8015B NM	44321
890-3870-9	PH03	Total/NA	Solid	8015B NM	44321
890-3870-10	PH03A	Total/NA	Solid	8015B NM	44321
890-3870-11	PH03B	Total/NA	Solid	8015B NM	44321
MB 880-44321/1-A	Method Blank	Total/NA	Solid	8015B NM	44321
LCS 880-44321/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44321
LCSD 880-44321/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44321
890-3866-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	44321
890-3866-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	44321

Analysis Batch: 44649

Lab Sample ID 890-3870-1	Client Sample ID PH01	Prep Type Total/NA	Matrix Solid	Method Pro 8015 NM	ep Batch
890-3870-2	PH01A	Total/NA	Solid	8015 NM	
890-3870-3	PH01B	Total/NA	Solid	8015 NM	
890-3870-5	PH02A	Total/NA	Solid	8015 NM	
890-3870-6	PH02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3870-1	PH01	Soluble	Solid	DI Leach	
890-3870-2	PH01A	Soluble	Solid	DI Leach	
890-3870-3	PH01B	Soluble	Solid	DI Leach	
890-3870-5	PH02A	Soluble	Solid	DI Leach	
890-3870-6	PH02	Soluble	Solid	DI Leach	
890-3870-7	PH02B	Soluble	Solid	DI Leach	
890-3870-9	PH03	Soluble	Solid	DI Leach	
890-3870-10	PH03A	Soluble	Solid	DI Leach	
890-3870-11	PH03B	Soluble	Solid	DI Leach	
MB 880-44244/1-A	Method Blank	Soluble	Solid	DI Leach	

Client: Ensolum

Project/Site: Remuda 4.24.30 CTB

Job ID: 890-3870-1

SDG: 03C1558152

HPLC/IC (Continued)

Leach Batch: 44244 (Continued)

Lab Sample ID LCS 880-44244/2-A	Client Sample ID Lab Control Sample	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
LCSD 880-44244/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23720-A-71-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-23720-A-71-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 44497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3870-1	PH01	Soluble	Solid	300.0	44244
890-3870-2	PH01A	Soluble	Solid	300.0	44244
890-3870-3	PH01B	Soluble	Solid	300.0	44244
890-3870-5	PH02A	Soluble	Solid	300.0	44244
890-3870-6	PH02	Soluble	Solid	300.0	44244
890-3870-7	PH02B	Soluble	Solid	300.0	44244
890-3870-9	PH03	Soluble	Solid	300.0	44244
890-3870-10	PH03A	Soluble	Solid	300.0	44244
890-3870-11	PH03B	Soluble	Solid	300.0	44244
MB 880-44244/1-A	Method Blank	Soluble	Solid	300.0	44244
LCS 880-44244/2-A	Lab Control Sample	Soluble	Solid	300.0	44244
LCSD 880-44244/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44244
880-23720-A-71-B MS	Matrix Spike	Soluble	Solid	300.0	44244
880-23720-A-71-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44244

Client: Ensolum Job ID: 890-3870-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: PH01 Lab Sample ID: 890-3870-1

Date Collected: 01/16/23 13:55 Matrix: Solid

Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	44392	01/19/23 16:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44509	01/23/23 13:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44595	01/23/23 16:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			44649	01/24/23 14:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 18:28	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 23:02	CH	EET MID

Client Sample ID: PH01A Lab Sample ID: 890-3870-2 Date Collected: 01/16/23 14:00 **Matrix: Solid**

Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	44392	01/19/23 16:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44509	01/23/23 13:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44595	01/23/23 16:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			44649	01/24/23 14:41	AJ	EET MI
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 18:51	AJ	EET MI
Soluble	Leach	DI Leach			5.03 g	50 mL	44244	01/18/23 11:48	KS	EET MI
Soluble	Analysis	300.0		1			44497	01/20/23 23:08	CH	EET MII

Client Sample ID: PH01B Lab Sample ID: 890-3870-3 Date Collected: 01/16/23 14:10 **Matrix: Solid**

Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	_		5.03 g	5 mL	44392	01/19/23 16:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44509	01/23/23 14:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44595	01/23/23 16:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			44649	01/24/23 14:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 19:14	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 23:26	CH	EET MID

Client Sample ID: PH02A Lab Sample ID: 890-3870-5 Date Collected: 01/16/23 12:50 Matrix: Solid

Date Received: 01/17/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	44392	01/19/23 16:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44509	01/23/23 14:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44595	01/23/23 16:53	SM	EET MID

Project/Site: Remuda 4.24.30 CTB

Client Sample ID: PH02A

Client: Ensolum

Lab Sample ID: 890-3870-5

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Collected: 01/16/23 12:50 Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			44649	01/24/23 14:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 19:38	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 23:33	CH	EET MID

Client Sample ID: PH02 Lab Sample ID: 890-3870-6 Date Collected: 01/16/23 12:45 **Matrix: Solid**

Date Received: 01/17/23 08:15

Batch Dil Initial Final **Batch** Batch Prepared Method Amount Amount Number **Prep Type** Type Run **Factor** or Analyzed Analyst Lab Total/NA Prep 5035 44392 01/19/23 16:32 5.02 g MNR 5 mL **EET MID** Total/NA Analysis 8021B 1 5 mL 5 mL 44509 01/23/23 14:44 MNR **EET MID**

Total/NA Analysis **Total BTEX** 1 44595 01/23/23 16:53 SM **EET MID** Total/NA 8015 NM 44649 Analysis 01/24/23 14:41 AJ **EET MID** Total/NA Prep 8015NM Prep 10.01 g 44321 01/19/23 11:50 DM **EET MID** 10 mL Total/NA 8015B NM 44517 01/23/23 20:03 AJ Analysis 1 uL 1 uL **EET MID** 44244 01/18/23 11:48 KS Soluble Leach DI Leach 5.02 g 50 mL **EET MID** 300.0 44497 01/20/23 23:39 CH Soluble Analysis 1 **EET MID**

Client Sample ID: PH02B Lab Sample ID: 890-3870-7

Date Collected: 01/16/23 13:00 Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	44392	01/19/23 16:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44509	01/23/23 15:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44595	01/23/23 16:53	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 20:25	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44244	01/18/23 11:48	KS	EET MI
Soluble	Analysis	300.0		1			44497	01/20/23 23:45	CH	EET MI

Client Sample ID: PH03 Lab Sample ID: 890-3870-9

Date Collected: 01/16/23 13:20 Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	44392	01/19/23 16:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44509	01/23/23 15:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44595	01/23/23 16:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 20:48	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 23:51	CH	EET MID

Job ID: 890-3870-1

SDG: 03C1558152

Client Sample ID: PH03A

Client: Ensolum

Lab Sample ID: 890-3870-10

Matrix: Solid

Date Collected: 01/16/23 13:25 Date Received: 01/17/23 08:15

Project/Site: Remuda 4.24.30 CTB

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	44392	01/19/23 16:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44509	01/23/23 15:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44595	01/23/23 16:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 21:10	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 23:57	CH	EET MID

Client Sample ID: PH03B

Date Collected: 01/16/23 13:35

Lab Sample ID: 890-3870-11

Matrix: Solid

Date Received: 01/17/23 08:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	44392	01/19/23 16:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44509	01/23/23 16:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44595	01/23/23 16:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 21:32	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/21/23 00:03	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-3870-1

 Project/Site: Remuda 4.24.30 CTB
 SDG: 03C1558152

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following englyte	o are included in this ren	art but the laboratory is r		This list was closely do a such that for
	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for
the agency does not o	offer certification.	•	, , ,	This list may include analytes for
	•	Matrix	Analyte	I his list may include analytes for
the agency does not o	offer certification.	•	, , ,	This list may include analytes for

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Method Summary

Client: Ensolum

Project/Site: Remuda 4.24.30 CTB

Job ID: 890-3870-1

SDG: 03C1558152

Protocol	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
EPA	EET MID

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum

Project/Site: Remuda 4.24.30 CTB

Job ID: 890-3870-1 SDG: 03C1558152

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3870-1	PH01	Solid	01/16/23 13:55	01/17/23 08:15	1'
890-3870-2	PH01A	Solid	01/16/23 14:00	01/17/23 08:15	2'
890-3870-3	PH01B	Solid	01/16/23 14:10	01/17/23 08:15	4'
890-3870-5	PH02A	Solid	01/16/23 12:50	01/17/23 08:15	2'
890-3870-6	PH02	Solid	01/16/23 12:45	01/17/23 08:15	1'
890-3870-7	PH02B	Solid	01/16/23 13:00	01/17/23 08:15	4'
890-3870-9	PH03	Solid	01/16/23 13:20	01/17/23 08:15	1'
890-3870-10	PH03A	Solid	01/16/23 13:25	01/17/23 08:15	2'
890-3870-11	PH03B	Solid	01/16/23 13:35	01/17/23 08:15	4'

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Part	Revised Date: 08/25/2020 Rev. 2020.2		6			-	
www.xenco.com Page of 2 Work Order Comments			3 051	11.11	Mender	WHY CAN	1100
WORK Order INC. Work Order Comments T/PST PRP Brownfields RRC Superfu EDD ADapT Other: Preservative Codes None: NO DI Water: I Cool: Cool MeOH: No H ₂ SO ₄ : H ₂ NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC Sample Comments Inc. Id. H # : AAPP22333517 Cost Cost Conter: Cost Cost Conter: 1 Cost Cost Conter: NaOH-Ascorbic Acid: SAPC Sample Comments 1 Cost Cost Cost Cost F: 21288 11206 Se Ag SiO ₂ Na Sr TI Sn U V Zn H ₃ : 1631/245.1/7470 /7471 Date/Time			200	1	1	KA 7	2000
WORK Order INC. Work Order Comments T/PST PRP Brownfields RRC Superfu EDD ADaPT Other: Preservative Codes None: NO DI Water: I Cool: Cool MeOH: Me H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC Sample Comments Incident #: AAPP22333517 Cost Conter: 21288 11201 Se Ag SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631/245.1/7470/7471	Date/Time	Received by: (Signature)	ate/Time Relinquished by: (Signature)	e) D	Received by: (Signatur	(Signature)	Religauished by
WORK Order Comments UST/PST PRP Brownfields RRC Superfuroject: Level III Level IIII PST/UST TRRP Level IV Les: EDD ADaPT Other: Preservative Codes None: NO DI Water: I H ₂ SO ₄ : H ₂ NABIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC Sample Comments Co.St Conter: Co.St Conter: 1 Co.St C		usly negotiated.	incurred by the client it such bases are que to circumstances beyond the first Xenco, but not analyzed. These terms will be enforced unless previous	onsibility for any losses or expenses in for each sample submitted to Eurofi	les and shall not assume any responses of \$5	I be liable only for the cost of samp in charge of \$85.00 will be applied t	ervice. Eurofins Xenco will urofins Xenco. A minimun
Manager Best Bouline Maland Ma		onditions	Xenco, its affiliates and subcontractors. It assigns standard terms and co	ler from client company to Eurofins	es constitutes a valid purchase on	ment and relinquishment of sampl	ce: Signature of this docu
Mallacd Triad 2004-254 Sampled	/7471	TI U Hg: 1631 / 245.1 / 7470 /	As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag	PLP 6010 : 8RCRA Sb	8RCR	nd Metal(s) to be ana	Total 200.7 / 6010 rcle Method(s) a
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Maland, TX (23) 704-540, San Antonio, TX (210) 509-3334 WOLK Older Vo.	ate+NaOH: Zn		090-500	2.0	Temperature Reading:	ŏ.	Sample Custody Seals:
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Remark R	: NABIS	NaHSO	es	87	Thermometer ID:	E)	ples Received Intac
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Manager: Ben Belin Billito: (if different) Cartsbad, NM (575) 982-3199		H ₂ SO 4: H					PO #:
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Manager: Ben Bc :	<u>o</u>	Cool: Coo			Q	32.25359, 70	Project Location:
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Manager: Ben Bell I. Bill to: (if different) Carret Green State of Project: PRP Brownfields RRC S: 3122 Nat Parks How Address: 3104 Carls bad, NM 88220 City, State 2IP: Carls bad, NM 88220 City, State 2IP: Carls bad, NM 88220 City, State 2IP: Carls bad, NM 88220 Email: bbc1 Censc Level III Level III PST/UST TRRP Nork Order Comments Work Order Comments Work Order Comments Program: UST/PST PRP Brownfields RRC Reporting: Level III Level III PST/UST TRRP Other: PRP Address: EDD ADaPT Other: PRP PST/UST TRRP Other: PRP PST/UST TRPP Other: PRP PST/UST TRRP Other: PRP PST/UST TRRP Other: PRP PST/UST TRRP Other: PRP PST/UST	eservative Codes	Pre	ANALYSIS REQUEST			Remuda 4-24	Project Name:
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Company Name: Project Manager:

3122 Nat'l Parks Hay

Bill to: (if different) Company Name:

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Program: State of Project:

UST/PST PRP Brownfields RRC

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Work Order Comments

www.xenco.com

Reporting: Level II | Level III | PST/UST | TRRP | Level IV |

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Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Xenco

Environment Testing

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				MACA NO		City, State ZIP:		700	N PEGE	(a)	City, State ZIP:

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3870-1

SDG Number: 03C1558152

Login Number: 3870 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3870-1

 SDG Number: 03C1558152

List Source: Eurofins Midland
List Number: 2
List Creation: 01/18/23 10:51 AM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 1/24/2023 12:47:48 PM

JOB DESCRIPTION

REMUDA 4-24-30 CTB SDG NUMBER 03C1558152

JOB NUMBER

890-3872-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 1/24/2023 12:47:48 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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ΙU

Client: Ensolum
Project/Site: REMUDA 4-24-30 CTB
Laboratory Job ID: 890-3872-1
SDG: 03C1558152

Table of Contents

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QC Association Summary	14
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Receint Checklists	21

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Definitions/Glossary

Client: Ensolum Job ID: 890-3872-1 Project/Site: REMUDA 4-24-30 CTB

SDG: 03C1558152

Qualifiers

GC VOA

Qualifier **Qualifier Description** MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** F2 MS/MSD RPD exceeds control limits U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

EDL

Glossary						
Abbreviation	These commonly used abbreviations may or may not be present in this report.					
n	Listed under the "D" column to designate that the result is reported on a dry weight basis					
%R	Percent Recovery					
CFL	Contains Free Liquid					
CFU	Colony Forming Unit					
CNF	Contains No Free Liquid					
DER	Duplicate Error Ratio (normalized absolute difference)					
Dil Fac	Dilution Factor					

DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)

MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

ND	Not Detected at the reporting limit (or MDL or EDL if shown)

NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

PI	Reporting Limit	or Regulacted	Limit (Radiochemistry	Λ

RPD	Relative Percent Difference, a measure of the relative difference between two points

TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: REMUDA 4-24-30 CTB

Job ID: 890-3872-1

SDG: 03C1558152

Job ID: 890-3872-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3872-1

Receipt

The samples were received on 1/17/2023 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-3872-1), BH01A (890-3872-2) and BH01B (890-3872-3).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The method blank for preparation batch 880-44256 and analytical batch 880-44309 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-44256 and analytical batch 880-44309 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44245 and analytical batch 880-44498 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Job ID: 890-3872-1

Client: Ensolum Project/Site: REMUDA 4-24-30 CTB SDG: 03C1558152

Client Sample ID: BH01 Lab Sample ID: 890-3872-1

Date Collected: 01/16/23 10:05 Matrix: Solid Date Received: 01/17/23 08:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:32	01/23/23 17:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:32	01/23/23 17:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:32	01/23/23 17:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/19/23 16:32	01/23/23 17:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:32	01/23/23 17:54	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/19/23 16:32	01/23/23 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			01/19/23 16:32	01/23/23 17:54	1
1,4-Difluorobenzene (Surr)	106		70 - 130			01/19/23 16:32	01/23/23 17:54	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/24/23 13:39	1
Analyto	Posult	ics (DRO) (•	Unit	n	Propared	Analyzod	Dil Fac
Analyte Total TRM		Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	
Total TPH	186	Qualifier	RL 49.9	mg/Kg	<u>D</u>	Prepared	Analyzed 01/20/23 12:34	
Total TPH Method: SW846 8015B NM - Die	186 sel Range Orga	Qualifier nics (DRO)	RL 49.9 (GC)	mg/Kg			01/20/23 12:34	1
Total TPH Method: SW846 8015B NM - Die Analyte	186 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	<u>D</u>	Prepared	01/20/23 12:34 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Die	186 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			01/20/23 12:34	Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	186 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		Prepared	01/20/23 12:34 Analyzed	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result <49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 01/18/23 13:58	01/20/23 12:34 Analyzed 01/19/23 18:19	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/18/23 13:58 01/18/23 13:58	01/20/23 12:34 Analyzed 01/19/23 18:19 01/19/23 18:19	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	186 sel Range Orga Result <49.9 186 <49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/18/23 13:58 01/18/23 13:58 01/18/23 13:58	01/20/23 12:34 Analyzed 01/19/23 18:19 01/19/23 18:19 01/19/23 18:19	Dil Face 1 1 1 Dil Face
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	186 sel Range Orga Result <49.9 186 <49.9 %Recovery	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/18/23 13:58 01/18/23 13:58 01/18/23 13:58 Prepared	Analyzed 01/19/23 18:19 01/19/23 18:19 01/19/23 18:19 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	186 sel Range Orga Result <49.9 186 49.9 %Recovery 102 103	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/18/23 13:58 01/18/23 13:58 01/18/23 13:58 Prepared 01/18/23 13:58	01/20/23 12:34 Analyzed 01/19/23 18:19 01/19/23 18:19 Analyzed 01/19/23 18:19	Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	186 Sel Range Orga Result	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/18/23 13:58 01/18/23 13:58 01/18/23 13:58 Prepared 01/18/23 13:58	01/20/23 12:34 Analyzed 01/19/23 18:19 01/19/23 18:19 Analyzed 01/19/23 18:19	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: BH01A Lab Sample ID: 890-3872-2

Date Collected: 01/16/23 10:10 Date Received: 01/17/23 08:15

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 18:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 18:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 18:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 18:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 18:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/19/23 16:32	01/23/23 18:15	1

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3872-2

Client: Ensolum Job ID: 890-3872-1

Project/Site: REMUDA 4-24-30 CTB SDG: 03C1558152

Client Sample ID: BH01A

Date Collected: 01/16/23 10:10 Date Received: 01/17/23 08:15

Sample Depth: 1

Method: SW846 8021B - Volatile Or	ganic Compounds	(GC)	(Continued)
modification of the court of th	gaine compounds		(Continuou)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	119	70 - 130	01/19/23 16:32	01/23/23 18:15	1

Method: TAL So	OP Total BTFX	- Total BTEX	Calculation
INICIIIOG. IAL O	JI IOLAI DILA	- IUlai DILA	Calculation

Analyte	Result Qualifi		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	ma/Ka			01/24/23 13:39	1

Mathada OMO40 0045 NM Disasi Damas Omenica (DDO) (OO	Α.
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	. 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/20/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/18/23 13:58	01/19/23 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/18/23 13:58	01/19/23 18:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/18/23 13:58	01/19/23 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97	70 - 130	01/18/23 13:58	01/19/23 18:41	1
o-Terphenyl	94	70 - 130	01/18/23 13:58	01/19/23 18:41	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	337		4.95	mg/K			01/20/23 20:21	1

Client Sample ID: BH01B Lab Sample ID: 890-3872-3

Date Collected: 01/16/23 10:15 Date Received: 01/17/23 08:15

Sample Depth: 2

Method: SW846	S 2021R - Volatile	Organic (Compounds	(CC)

method. 5w646 6021B - volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 18:36	1		
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 18:36	1		
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 18:36	1		
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 18:36	1		
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:32	01/23/23 18:36	1		
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:32	01/23/23 18:36	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	118		70 - 130			01/19/23 16:32	01/23/23 18:36	1		

4-Bromotiuoropenzene (Surr)	118	70 - 130	01/19/23 16:32	01/23/23 18:36	7
1,4-Difluorobenzene (Surr)	96	70 - 130	01/19/23 16:32	01/23/23 18:36	1
_					

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/23 13:39	1

Method: SW846 8015 NM - Diesel Range Organic	s (DRO)	(GC)
michiod. Offoro out of this - Dieser Mange Organic	,3 (DIXO)	1001

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/20/23 12:34	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3872-3

Analyzed

01/20/23 20:27

Client Sample Results

 Client: Ensolum
 Job ID: 890-3872-1

 Project/Site: REMUDA 4-24-30 CTB
 SDG: 03C1558152

Client Sample ID: BH01B

Date Collected: 01/16/23 10:15 Date Received: 01/17/23 08:15

Sample Depth: 2

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/18/23 13:58	01/19/23 19:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/18/23 13:58	01/19/23 19:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/18/23 13:58	01/19/23 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			01/18/23 13:58	01/19/23 19:02	1
o-Terphenyl	89		70 - 130			01/18/23 13:58	01/19/23 19:02	1

RL

4.96

Unit

mg/Kg

D

Prepared

Result Qualifier

59.5

12

Dil Fac

Surrogate Summary

Job ID: 890-3872-1 Client: Ensolum Project/Site: REMUDA 4-24-30 CTB SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3870-A-1-C MS	Matrix Spike	82	105	
890-3870-A-1-D MSD	Matrix Spike Duplicate	91	102	
890-3872-1 I	BH01	88	106	
890-3872-2	BH01A	114	119	
890-3872-3	BH01B	118	96	
LCS 880-44392/1-A	Lab Control Sample	83	106	
LCSD 880-44392/2-A	Lab Control Sample Dup	86	104	
MB 880-44392/5-A	Method Blank	87	103	
Surrogate Legend				
BFB = 4-Bromofluorobenzene	(Surr)			

DFBZ = 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3822-A-1-F MS	Matrix Spike	110	104	
890-3822-A-1-G MSD	Matrix Spike Duplicate	105	98	
890-3872-1	BH01	102	103	
890-3872-2	BH01A	97	94	
890-3872-3	BH01B	91	89	
LCS 880-44256/2-A	Lab Control Sample	121	120	
LCSD 880-44256/3-A	Lab Control Sample Dup	126	129	
MB 880-44256/1-A	Method Blank	111	110	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3872-1 Project/Site: REMUDA 4-24-30 CTB

SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44392/5-A

Lab Sample ID: LCS 880-44392/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 44509

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44392

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:32	01/23/23 12:59	•
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:32	01/23/23 12:59	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:32	01/23/23 12:59	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/19/23 16:32	01/23/23 12:59	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:32	01/23/23 12:59	
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		01/19/23 16:32	01/23/23 12:59	•

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87	70 - 130	01/19/23 16:32	01/23/23 12:59	1
1,4-Difluorobenzene (Surr)	103	70 - 130	01/19/23 16:32	01/23/23 12:59	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44392

Analysis Batch: 44509 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1159 mg/Kg 116 70 - 130 Toluene 0.100 0.1006 mg/Kg 101 70 - 130 0.100 102 Ethylbenzene 0.1024 mg/Kg 70 - 130 0.200 0.1769 88 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.08972 70 - 130 o-Xylene mg/Kg 90

LCS LCS

Surrogate	%Recovery Qu	ualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 44509

Lab Sample ID: LCSD 880-44392/2-A

Prep Type: Total/NA Prep Batch: 44392

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1196		mg/Kg		120	70 - 130	3	35
Toluene	0.100	0.1044		mg/Kg		104	70 - 130	4	35
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1851		mg/Kg		93	70 - 130	5	35
o-Xylene	0.100	0.09395		mg/Kg		94	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	86	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: 890-3870-A-1-C MS

Matrix: Solid

Analysis Batch: 44509

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44392

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0998	0.1040		mg/Kg		104	70 - 130	
Toluene	0.00967		0.0998	0.09206		mg/Kg		83	70 - 130	

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QC Sample Results

Job ID: 890-3872-1 Client: Ensolum Project/Site: REMUDA 4-24-30 CTB SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3870-A-1-C MS

Lab Sample ID: 890-3870-A-1-D MSD

Matrix: Solid

Analysis Batch: 44509

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 44392

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene 0.0184 0.0998 0.09024 72 70 - 130 mg/Kg m-Xylene & p-Xylene 0.0689 0.200 0.1594 F1 mg/Kg 45 70 - 130 0.0998 o-Xylene 0.0330 F1 0.08160 F1 49 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44392

Analysis Batch: 44509

Matrix: Solid

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Unit Limits 0.100 Benzene <0.00201 U 0.1125 mg/Kg 112 70 - 130 8 35 0.00967 Toluene 0.100 0.1061 mg/Kg 96 70 - 130 14 35 Ethylbenzene 0.0184 0.100 0.1197 101 70 - 130 28 35 mg/Kg 0.200 70 - 130 m-Xylene & p-Xylene 0.0689 F1 0.2173 mg/Kg 74 31 35 0.0330 F1 0.100 0.1035 70 70 - 130 24 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-44256/1-A

Matrix: Solid

Analysis Batch: 44309

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 44256

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/18/23 13:58	01/19/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/18/23 13:58	01/19/23 08:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/18/23 13:58	01/19/23 08:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	01/18/23 13:58	01/19/23 08:23	1
o-Terphenyl	110		70 - 130	01/18/23 13:58	01/19/23 08:23	1

Lab Sample ID: LCS 880-44256/2-A

Matrix: Solid

Analysis Batch: 44309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44256

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1031		mg/Kg		103	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1001		mg/Kg		100	70 - 130	
C10-C28)								

Job ID: 890-3872-1 Client: Ensolum Project/Site: REMUDA 4-24-30 CTB

SDG: 03C1558152

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-44256/2-A

Lab Sample ID: LCSD 880-44256/3-A

Matrix: Solid

Analysis Batch: 44309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44256

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 121 70 - 130 o-Terphenyl 120 70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 44309 Prep Batch: 44256

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1062 106 70 - 1303 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1080 108 mg/Kg 70 - 13020 8 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 126 129 70 - 130 o-Terphenyl

Lab Sample ID: 890-3822-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 44309

Prep Type: Total/NA

Prep Batch: 44256

MS MS Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.9 U F2 998 928.6 mg/Kg 90 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 1039 mg/Kg 102 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 110 o-Terphenyl 104 70 - 130

Lab Sample ID: 890-3822-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 44309

Prep Type: Total/NA

Prep Batch: 44256

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U F2 997 1204 F2 Gasoline Range Organics <49.9 117 70 - 130 26 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 997 1011 mg/Kg 100 70 - 130 3 20

C10-C28)

MSD MSD

Qualifier Surrogate %Recovery Limits 1-Chlorooctane 105 70 - 130 98 70 - 130 o-Terphenyl

Eurofins Carlsbad

1/24/2023

QC Sample Results

Client: Ensolum Job ID: 890-3872-1 Project/Site: REMUDA 4-24-30 CTB

SDG: 03C1558152

Prep Type: Soluble

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44245/1-A

Matrix: Solid

Lab Sample ID: LCS 880-44245/2-A

Analysis Batch: 44498

мв мв

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/20/23 17:31

> Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 44498

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 255.6 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-44245/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44498

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 254.7 mg/Kg 102 90 - 110

Lab Sample ID: 890-3866-A-2-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44498

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits Chloride 45.3 F1 252 338.4 F1 116 90 - 110 mg/Kg

Lab Sample ID: 890-3866-A-2-C MSD

Matrix: Solid

Analysis Batch: 44498

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 45.3 F1 252 339.5 F1 mg/Kg 117 90 - 110 20

Client: Ensolum

Project/Site: REMUDA 4-24-30 CTB

Job ID: 890-3872-1

SDG: 03C1558152

GC VOA

Prep Batch: 44392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3872-1	BH01	Total/NA	Solid	5035	
890-3872-2	BH01A	Total/NA	Solid	5035	
890-3872-3	BH01B	Total/NA	Solid	5035	
MB 880-44392/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44392/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44392/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3870-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3870-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 44509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3872-1	BH01	Total/NA	Solid	8021B	44392
890-3872-2	BH01A	Total/NA	Solid	8021B	44392
890-3872-3	BH01B	Total/NA	Solid	8021B	44392
MB 880-44392/5-A	Method Blank	Total/NA	Solid	8021B	44392
LCS 880-44392/1-A	Lab Control Sample	Total/NA	Solid	8021B	44392
LCSD 880-44392/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44392
890-3870-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	44392
890-3870-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	44392

Analysis Batch: 44633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3872-1	BH01	Total/NA	Solid	Total BTEX	
890-3872-2	BH01A	Total/NA	Solid	Total BTEX	
890-3872-3	BH01B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 44256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3872-1	BH01	Total/NA	Solid	8015NM Prep	
890-3872-2	BH01A	Total/NA	Solid	8015NM Prep	
890-3872-3	BH01B	Total/NA	Solid	8015NM Prep	
MB 880-44256/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44256/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44256/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3822-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3822-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3872-1	BH01	Total/NA	Solid	8015B NM	44256
890-3872-2	BH01A	Total/NA	Solid	8015B NM	44256
890-3872-3	BH01B	Total/NA	Solid	8015B NM	44256
MB 880-44256/1-A	Method Blank	Total/NA	Solid	8015B NM	44256
LCS 880-44256/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44256
LCSD 880-44256/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44256
890-3822-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	44256
890-3822-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	44256

Client: Ensolum

Project/Site: REMUDA 4-24-30 CTB

Job ID: 890-3872-1 SDG: 03C1558152

1558152

GC Semi VOA

Analysis Batch: 44451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3872-1	BH01	Total/NA	Solid	8015 NM	
890-3872-2	BH01A	Total/NA	Solid	8015 NM	
890-3872-3	BH01B	Total/NA	Solid	8015 NM	
090-3012-3	DUID	Total/NA	Solid	WINI CLUO	

HPLC/IC

Leach Batch: 44245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3872-1	BH01	Soluble	Solid	DI Leach	
890-3872-2	BH01A	Soluble	Solid	DI Leach	
890-3872-3	BH01B	Soluble	Solid	DI Leach	
MB 880-44245/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44245/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44245/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3866-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3866-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 44498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3872-1	BH01	Soluble	Solid	300.0	44245
890-3872-2	BH01A	Soluble	Solid	300.0	44245
890-3872-3	BH01B	Soluble	Solid	300.0	44245
MB 880-44245/1-A	Method Blank	Soluble	Solid	300.0	44245
LCS 880-44245/2-A	Lab Control Sample	Soluble	Solid	300.0	44245
LCSD 880-44245/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44245
890-3866-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	44245
890-3866-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44245

Client: Ensolum

Project/Site: REMUDA 4-24-30 CTB

Job ID: 890-3872-1 SDG: 03C1558152

Lab Sample ID: 890-3872-1

Lab Sample ID: 890-3872-3

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Collected: 01/16/23 10:05 Date Received: 01/17/23 08:15

Client Sample ID: BH01

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	44392	01/19/23 16:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44509	01/23/23 17:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44633	01/24/23 13:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44451	01/20/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44256	01/18/23 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44309	01/19/23 18:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44245	01/18/23 11:49	KS	EET MID
Soluble	Analysis	300.0		1			44498	01/20/23 20:15	CH	EET MID

Lab Sample ID: 890-3872-2 Client Sample ID: BH01A Date Collected: 01/16/23 10:10

Date Received: 01/17/23 08:15

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.02 g 5 mL 44392 01/19/23 16:32 MNR EET MID 8021B Total/NA 5 mL 01/23/23 18:15 **EET MID** Analysis 1 5 mL 44509 MNR Total/NA Total BTEX 44633 01/24/23 13:39 Analysis 1 A.I **EET MID** Total/NA Analysis 8015 NM 44451 01/20/23 12:34 SM **EET MID** Total/NA 8015NM Prep 44256 01/18/23 13:58 Prep 10.03 g 10 mL DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 44309 01/19/23 18:41 SM **EET MID** Soluble 5.05 g 01/18/23 11:49 KS Leach DI Leach 50 mL 44245 EET MID Soluble Analysis 300.0 44498 01/20/23 20:21 СН **EET MID**

Client Sample ID: BH01B Date Collected: 01/16/23 10:15

Date Received: 01/17/23 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	44392	01/19/23 16:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44509	01/23/23 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44633	01/24/23 13:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44451	01/20/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44256	01/18/23 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44309	01/19/23 19:02	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	44245	01/18/23 11:49	KS	EET MID
Soluble	Analysis	300.0		1			44498	01/20/23 20:27	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-3872-1

 Project/Site: REMUDA 4-24-30 CTB
 SDG: 03C1558152

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
,	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
the agency does not of	fer certification.			
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Ensolum

Project/Site: REMUDA 4-24-30 CTB

Job ID: 890-3872-1

SDG: 03C1558152

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: REMUDA 4-24-30 CTB

Job ID: 890-3872-1

SDG: 03C1558152

890-3872-1 BH01 Solid 01/16/23 10:05 01/17/23 08:15 0.5 890-3872-2 BH01A Solid 01/16/23 10:10 01/17/23 08:15 1 890-3872-3 BH01B Solid 01/16/23 10:15 01/17/23 08:15 2	Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
	890-3872-1	BH01	Solid	01/16/23 10:05	01/17/23 08:15	0.5
890-3872-3 BH01B Solid 01/16/23 10:15 01/17/23 08:15 2	890-3872-2	BH01A	Solid	01/16/23 10:10	01/17/23 08:15	1
	890-3872-3	BH01B	Solid	01/16/23 10:15	01/17/23 08:15	2

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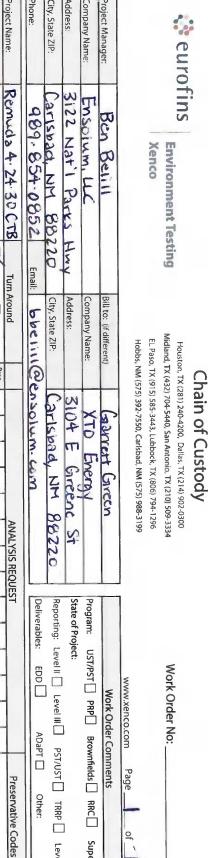
Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Hg: 1631 / 245.1 / 7470 / 7471

TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U



SAMPLE RECEIPT

amp Blank: (es

Wet Ice:

Yes

Parameters

No

hermometer ID: Yes No

Samples Received Intact:

Yes Yes

S O ₹(

Temperature Reading:

Corrected Temperature:

Correction Factor:

0.0 MOU

Total Containers: Sample Custody Seals: Cooler Custody Seals:

Sample Identification

Matrix

Date

Time

Sampled 1005

> Comp Grab/

Cont

of

BTEX

TPH

Chlorides

890-3872 Chain of Custody

Na₂S₂O₃: NaSO₃

NaHSO 4: NABIS

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

H3PO4: HP H2SO 4: H2

BHOIR

Bitol

1/11/23 Sampled

0 Depth

Q.

015 010

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Sampler's Name:

Meredith Reports

TAT starts the day received by the lab, if received by 4:30pm

HCL: HC

HNO 3: HN NaOH: Na

Cool: Cool None: NO

MeOH: Me

DI Water: H₂O

703.6813 Due Date:

roject Location:

Project Number

0301558152

NRoutine

Rush

Pres.

nAPP 2233351770

ost Center 2124871001

Incident #:

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Superfund [

Level IV

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3872-1

 SDG Number: 03C1558152

Login Number: 3872 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3872-1 SDG Number: 03C1558152

List Source: Eurofins Midland

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3872

List Creation: 01/18/23 10:51 AM

		Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 3/3/2023 1:08:44 PM

JOB DESCRIPTION

Remuda 4.24.30 CTB SDG NUMBER 03C1558152

JOB NUMBER

890-4167-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 3/3/2023 1:08:44 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

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Client: Ensolum
Project/Site: Remuda 4.24.30 CTB
Laboratory Job ID: 890-4167-1
SDG: 03C1558152

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Definitions/Glossary

Job ID: 890-4167-1 Client: Ensolum Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Qualifiers

GC VOA

Qualifier **Qualifier Description** LCS and/or LCSD is outside acceptance limits, high biased. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** F2 MS/MSD RPD exceeds control limits S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery

CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL **Practical Quantitation Limit**

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Remuda 4.24.30 CTB

Job ID: 890-4167-1

SDG: 03C1558152

Job ID: 890-4167-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4167-1

Receipt

The samples were received on 2/21/2023 2:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4167-1), FS02 (890-4167-2), FS03 (890-4167-3), FS04 (890-4167-4), FS05 (890-4167-5), FS06 (890-4167-6), FS07 (890-4167-7), FS08 (890-4167-8), FS09 (890-4167-9), FS10 (890-4167-10), SW01 (890-4167-11), SW02 (890-4167-12), SW03 (890-4167-13) and SW04 (890-4167-14).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-47353 and analytical batch 880-47603 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-47228 and analytical batch 880-47221 was outside the upper control limits.

Method 8015MOD NM: The method blank for preparation batch 880-47228 and analytical batch 880-47221 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-47228 and analytical batch 880-47221 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPI C/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47101 and analytical batch 880-47257 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

 Client: Ensolum
 Job ID: 890-4167-1

 Project/Site: Remuda 4.24.30 CTB
 SDG: 03C1558152

Client Sample ID: FS01 Lab Sample ID: 890-4167-1

Date Collected: 02/21/23 09:30 Matrix: Solid
Date Received: 02/21/23 14:21

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/27/23 16:25	03/03/23 01:25	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/27/23 16:25	03/03/23 01:25	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		02/27/23 16:25	03/03/23 01:25	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		02/27/23 16:25	03/03/23 01:25	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		02/27/23 16:25	03/03/23 01:25	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		02/27/23 16:25	03/03/23 01:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/27/23 16:25	03/03/23 01:25	1
1,4-Difluorobenzene (Surr)	85		70 - 130			02/27/23 16:25	03/03/23 01:25	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/03/23 13:41	1
		ics (DRO) (•	l lmi4	_	Duamanad	Amalumad	Dil Faa
			•	1114	_	D	A a b a d	D!! F
Analyte		Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/27/23 12:30	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die	Result <50.0 sel Range Orga	Qualifier U	RL 50.0	mg/Kg			02/27/23 12:30	1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.0 (GC)	mg/Kg	<u>D</u>	Prepared	02/27/23 12:30 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg			02/27/23 12:30	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg Unit mg/Kg		Prepared	02/27/23 12:30 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	(GC) RL 50.0	mg/Kg		Prepared 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:49	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	(GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:49	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:49 02/25/23 23:49	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:49 02/25/23 23:49 02/25/23 23:49	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared	02/27/23 12:30 Analyzed 02/25/23 23:49 02/25/23 23:49 02/25/23 23:49 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:49 02/25/23 23:49 02/25/23 23:49 Analyzed 02/25/23 23:49	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:49 02/25/23 23:49 02/25/23 23:49 Analyzed 02/25/23 23:49	Dil Fac 1 Dil Fac 1 1 Dil Fac 7 Dil Fac 1 Dil Fac

Client Sample ID: FS02 Lab Sample ID: 890-4167-2

Date Collected: 02/21/23 09:35 Date Received: 02/21/23 14:21

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:25	03/03/23 01:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:25	03/03/23 01:46	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		02/27/23 16:25	03/03/23 01:46	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	mg/Kg		02/27/23 16:25	03/03/23 01:46	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		02/27/23 16:25	03/03/23 01:46	1
Xylenes, Total	<0.00401	U *+	0.00401	mg/Kg		02/27/23 16:25	03/03/23 01:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			02/27/23 16:25	03/03/23 01:46	

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Matrix: Solid

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Client Sample Results

 Client: Ensolum
 Job ID: 890-4167-1

 Project/Site: Remuda 4.24.30 CTB
 SDG: 03C1558152

Client Sample ID: FS02 Lab Sample ID: 890-4167-2

Matrix: Solid

Date Collected: 02/21/23 09:35 Date Received: 02/21/23 14:21 Sample Depth: 1

Method: SW846 8021B - V	Volatile Organic Compounds ((GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	83	70 - 130	02/27/23 16:25	03/03/23 01:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401 U	0.00401	ma/Ka			03/03/23 13:41	1

Method: SW846 8015 NM - Diesel I	D		101
	Rande Ordanics i	DROIG	7(.)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka			02/27/23 12:30	1

	Mothod: SW046 904ED NM Diocol Dan	go Organico (DBO) (CC)	v
ı	Method: SW846 8015B NM - Diesel Ran	ge Organics (DRO) (GC)	,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 00:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 00:11	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 00:11	1
Surrogate	%Recovery	Qualifier	l imits			Propared	Analyzed	Dil Eac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	02/25/23 08:55	02/26/23 00:11	1
o-Terphenyl	123		70 - 130	02/25/23 08:55	02/26/23 00:11	1

Method: EPA 300.0	- Anions, Ion	Chromatography	y - Soluble
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.6	F1	4.97	mg/Kg			02/27/23 01:12	1

Client Sample ID: FS03 Lab Sample ID: 890-4167-3

Date Collected: 02/21/23 09:40 Date Received: 02/21/23 14:21

Sample Depth: 1

Mothodi CIMO46 0004D	Valatila Organia Campaunda (CC)

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:25	03/03/23 02:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:25	03/03/23 02:06	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		02/27/23 16:25	03/03/23 02:06	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		02/27/23 16:25	03/03/23 02:06	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		02/27/23 16:25	03/03/23 02:06	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		02/27/23 16:25	03/03/23 02:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			02/27/23 16:25	03/03/23 02:06	1
1,4-Difluorobenzene (Surr)	82		70 ₋ 130			02/27/23 16:25	03/03/23 02:06	1

1,4-Difluorobenzene (Surr)	82	70 - 130	02/27/23 16:25	03/03/23 02:06
Method: TAL SOP Total BTEX - Total BTEX	(Calculation			

Motifod: IAL OOI Total BILA	Total BIEA Galladiation					Analyzed	
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00300 11	0.00300	ma/Ka			03/03/23 13:41	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 12:30	1

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Lab Sample ID: 890-4167-3

Lab Sample ID: 890-4167-4

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-4167-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: FS03

Date Collected: 02/21/23 09:40 Date Received: 02/21/23 14:21

Sample Depth: 1

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 00:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 00:32	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 00:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			02/25/23 08:55	02/26/23 00:32	1
o-Terphenyl	117		70 - 130			02/25/23 08:55	02/26/23 00:32	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solub	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.9		5.05	mg/Kg			02/27/23 01:29	1

Client Sample ID: FS04

Date Collected: 02/21/23 10:40

Date Received: 02/21/23 14:21

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/27/23 16:25	03/03/23 02:27	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/27/23 16:25	03/03/23 02:27	1
Ethylbenzene	< 0.00201	U *+	0.00201	mg/Kg		02/27/23 16:25	03/03/23 02:27	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		02/27/23 16:25	03/03/23 02:27	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		02/27/23 16:25	03/03/23 02:27	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		02/27/23 16:25	03/03/23 02:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			02/27/23 16:25	03/03/23 02:27	1
1,4-Difluorobenzene (Surr)	89		70 - 130			02/27/23 16:25	03/03/23 02:27	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/03/23 13:41	1
-								
14 (I I OMO (O CO (T NIM D)		. (000)	201					
	•	, , ,	•		_			
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/27/23 12:30	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U			<u>D</u>	Prepared		
Analyte	Result <50.0	Qualifier U			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg		<u> </u>	02/27/23 12:30	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result sel Range Orga Result 	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/25/23 08:55	02/27/23 12:30 Analyzed 02/26/23 00:54	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL	mg/Kg		Prepared	02/27/23 12:30 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55	02/27/23 12:30 Analyzed 02/26/23 00:54 02/26/23 00:54	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result sel Range Orga Result 	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/25/23 08:55	02/27/23 12:30 Analyzed 02/26/23 00:54	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared	02/27/23 12:30 Analyzed 02/26/23 00:54 02/26/23 00:54 02/26/23 00:54 Analyzed	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55	02/27/23 12:30 Analyzed 02/26/23 00:54 02/26/23 00:54	1 Dil Fac 1

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-4167-1 SDG: 03C1558152

Client Sample ID: FS04

Date Collected: 02/21/23 10:40 Date Received: 02/21/23 14:21

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	18.7		5.00	mg/Kg			02/27/23 01:35	1		

Lab Sample ID: 890-4167-5 **Client Sample ID: FS05**

Date Collected: 02/21/23 10:45 Date Received: 02/21/23 14:21

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		02/27/23 16:25	03/03/23 03:50	
Toluene	<0.00198	U	0.00198	mg/Kg		02/27/23 16:25	03/03/23 03:50	
Ethylbenzene	<0.00198	U *+	0.00198	mg/Kg		02/27/23 16:25	03/03/23 03:50	
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	mg/Kg		02/27/23 16:25	03/03/23 03:50	
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		02/27/23 16:25	03/03/23 03:50	
Xylenes, Total	<0.00396	U *+	0.00396	mg/Kg		02/27/23 16:25	03/03/23 03:50	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	87		70 - 130			02/27/23 16:25	03/03/23 03:50	
1,4-Difluorobenzene (Surr)	91		70 - 130			02/27/23 16:25	03/03/23 03:50	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/03/23 13:41	
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	- ************************************		49.9	mg/Kg			02/27/23 12:30	
: Method: SW846 8015B NM - Dies	ol Pango Orga	nice (DPO)	(CC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9		49.9	mg/Kg		02/25/23 08:55	02/26/23 01:15	
(GRO)-C6-C10			.0.0	9/9		02/20/20 00:00	02/20/20 01110	
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 01:15	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 01:15	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	121		70 - 130			02/25/23 08:55	02/26/23 01:15	
o-Terphenyl	119		70 - 130			02/25/23 08:55	02/26/23 01:15	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	itosuit	Qualifici		•	_		·	

Project/Site: Remuda 4.24.30 CTB Lab Sample ID: 890-4167-4

Lab Sample ID: 890-4167-6

Job ID: 890-4167-1

Client: Ensolum Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: FS06

Date Collected: 02/21/23 10:50 Date Received: 02/21/23 14:21

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 16:25	03/03/23 04:10	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/27/23 16:25	03/03/23 04:10	1
Ethylbenzene	< 0.00199	U *+	0.00199	mg/Kg		02/27/23 16:25	03/03/23 04:10	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		02/27/23 16:25	03/03/23 04:10	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		02/27/23 16:25	03/03/23 04:10	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		02/27/23 16:25	03/03/23 04:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/27/23 16:25	03/03/23 04:10	1
1,4-Difluorobenzene (Surr)	77		70 - 130			02/27/23 16:25	03/03/23 04:10	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/23 13:41	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/27/23 12:30	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte	Result <49.9 sel Range Orga	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9	mg/Kg	_ =		02/27/23 12:30	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg	_ =	Prepared	02/27/23 12:30 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg	_ =	Prepared 02/25/23 08:55	02/27/23 12:30 Analyzed 02/26/23 01:58	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/25/23 08:55 02/25/23 08:55	02/27/23 12:30 Analyzed 02/26/23 01:58 02/26/23 01:58	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55	02/27/23 12:30 Analyzed 02/26/23 01:58 02/26/23 01:58	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared	02/27/23 12:30 Analyzed 02/26/23 01:58 02/26/23 01:58 02/26/23 01:58 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared 02/25/23 08:55	02/27/23 12:30 Analyzed 02/26/23 01:58 02/26/23 01:58 Analyzed 02/26/23 01:58	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared 02/25/23 08:55	02/27/23 12:30 Analyzed 02/26/23 01:58 02/26/23 01:58 Analyzed 02/26/23 01:58	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: FS07

Date Collected: 02/21/23 10:55 Date Received: 02/21/23 14:21

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 16:25	03/03/23 04:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/27/23 16:25	03/03/23 04:31	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		02/27/23 16:25	03/03/23 04:31	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		02/27/23 16:25	03/03/23 04:31	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		02/27/23 16:25	03/03/23 04:31	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		02/27/23 16:25	03/03/23 04:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			02/27/23 16:25	03/03/23 04:31	1

Eurofins Carlsbad

Lab Sample ID: 890-4167-7

Client: Ensolum Project/Site: Remuda 4.24.30 CTB

Job ID: 890-4167-1

SDG: 03C1558152

Client Sample ID: FS07 Lab Sample ID: 890-4167-7 Date Collected: 02/21/23 10:55

Matrix: Solid

Sample Depth: 2

Date Received: 02/21/23 14:21

Method: SW846 8021B	- Volatile Organic	Compounds (GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	90	70 - 130	02/27/23 16:25	03/03/23 04:31	1

Method: TAL So	OP Total BTFX	- Total BTEX	Calculation
INICIIIOG. IAL O	JI IOLAI DILA	- IUlai DILA	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	ma/Ka			03/03/23 13:41	1

Mathada OMO40 0045 NM Disaal Damas Omasica (DDO) (OO	Α.
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	. 1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 IJ	49.9	ma/Ka			02/27/23 12:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

	•	. ,	• •					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 02:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 02:20	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 02:20	1
Curre mate	0/ Danassams	Ouglifie.	Limita			Duamanad	Amalumad	Dil 5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	02/25/23 08:55	02/26/23 02:20	1
o-Terphenyl	123		70 - 130	02/25/23 08:55	02/26/23 02:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.0		4.98	mg/Kg			02/27/23 02:03	1

Client Sample ID: FS08 Lab Sample ID: 890-4167-8

Date Collected: 02/21/23 11:00 Date Received: 02/21/23 14:21

Sample Depth: 2

Method: SW846	S 2021R - Volatile	Organic (Compounds	(CC)

ngame comp	ounus (GC)	,					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		02/27/23 16:25	03/03/23 04:51	1
<0.00200	U	0.00200	mg/Kg		02/27/23 16:25	03/03/23 04:51	1
<0.00200	U *+	0.00200	mg/Kg		02/27/23 16:25	03/03/23 04:51	1
<0.00399	U *+	0.00399	mg/Kg		02/27/23 16:25	03/03/23 04:51	1
<0.00200	U *+	0.00200	mg/Kg		02/27/23 16:25	03/03/23 04:51	1
<0.00399	U *+	0.00399	mg/Kg		02/27/23 16:25	03/03/23 04:51	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
107		70 - 130			02/27/23 16:25	03/03/23 04:51	1
	Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399	Result Qualifier	<pre><0.00200 U</pre>	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	Result Qualifier RL Unit D Prepared <0.00200	Result Qualifier RL Unit D Prepared Analyzed <0.00200

	_					
	1,4-Difluorobenzene (Surr)	79	70 - 130	02/27/23 16:25	03/03/23 04:51	1
I	4-Bromofluorobenzene (Surr)	107	70 - 130	02/27/23 16:25	03/03/23 04:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/03/23 13:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 12:30	1

Eurofins Carlsbad

Lab Sample ID: 890-4167-8

Job ID: 890-4167-1

Client: Ensolum Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: FS08

Date Collected: 02/21/23 11:00 Date Received: 02/21/23 14:21

Sample Depth: 2

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/26/23 02:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/26/23 02:42	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/26/23 02:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			02/25/23 08:55	02/26/23 02:42	1
o-Terphenyl	115		70 - 130			02/25/23 08:55	02/26/23 02:42	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.0		4.96	mg/Kg			02/27/23 02:09	1

Client Sample ID: FS09 Lab Sample ID: 890-4167-9 Date Collected: 02/21/23 11:05 Matrix: Solid

Date Received: 02/21/23 14:21

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/27/23 16:25	03/03/23 05:12	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/27/23 16:25	03/03/23 05:12	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		02/27/23 16:25	03/03/23 05:12	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		02/27/23 16:25	03/03/23 05:12	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		02/27/23 16:25	03/03/23 05:12	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		02/27/23 16:25	03/03/23 05:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			02/27/23 16:25	03/03/23 05:12	1
1,4-Difluorobenzene (Surr)	83		70 - 130			02/27/23 16:25	03/03/23 05:12	1
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (GC)	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	- Result		50.0	mg/Kg	— –	Prepared	02/27/23 12:30	1
Method: SW846 8015B NM - Dies Analyte		nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/26/23 03:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/26/23 03:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/26/23 03:03	1
_	0/ 0	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	LIIIIII			riepaieu	Allalyzeu	DII Fac
1-Chlorooctane	%Recovery 102	Quanner	70 - 130			02/25/23 08:55	02/26/23 03:03	DII Fac

Job ID: 890-4167-1

Client: Ensolum SDG: 03C1558152 Project/Site: Remuda 4.24.30 CTB

Client Sample ID: FS09 Lab Sample ID: 890-4167-9

Date Collected: 02/21/23 11:05 Matrix: Solid Date Received: 02/21/23 14:21

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Ch	romatography - Solu	ıble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1	4.98	mg/Kg			02/27/23 02:14	1

Client Sample ID: FS10 Lab Sample ID: 890-4167-10 Matrix: Solid

Date Collected: 02/21/23 11:10 Date Received: 02/21/23 14:21

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202	mg/Kg		02/27/23 16:25	03/03/23 05:32	
Toluene	<0.00202	U	0.00202	mg/Kg		02/27/23 16:25	03/03/23 05:32	
Ethylbenzene	<0.00202	U *+	0.00202	mg/Kg		02/27/23 16:25	03/03/23 05:32	
m-Xylene & p-Xylene	<0.00404	U *+	0.00404	mg/Kg		02/27/23 16:25	03/03/23 05:32	
o-Xylene	<0.00202	U *+	0.00202	mg/Kg		02/27/23 16:25	03/03/23 05:32	
Xylenes, Total	<0.00404	U *+	0.00404	mg/Kg		02/27/23 16:25	03/03/23 05:32	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130			02/27/23 16:25	03/03/23 05:32	
1,4-Difluorobenzene (Surr)	81		70 - 130			02/27/23 16:25	03/03/23 05:32	
Method: TAL SOP Total BTEX - ⁻	Total BTFX Cald	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese	•	ics (DRO) (•	mg/Kg	_		03/03/23 13:41	5
Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		Dil Fa
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <50.0	ics (DRO) ((Qualifier	RL 50.0	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <50.0 sel Range Organ	ics (DRO) ((Qualifier	RL 50.0	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	el Range Organ Result <50.0 sel Range Organ	ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 50.0	Unit mg/Kg			Analyzed 02/27/23 12:30	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	el Range Organ Result <50.0 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 50.0 (GC)	Unit mg/Kg		Prepared	Analyzed 02/27/23 12:30 Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <50.0 sel Range Orga Result	ics (DRO) ((Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC)	Unit mg/Kg		Prepared	Analyzed 02/27/23 12:30 Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	ics (DRO) ((Qualifier U nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55	Analyzed 02/27/23 12:30 Analyzed 02/26/23 03:25 02/26/23 03:25	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <50.0 sel Range Orga Result <50.0	ics (DRO) ((Qualifier U nics (DRO) Qualifier U	(GC) RL 50.0 RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 02/25/23 08:55	Analyzed 02/27/23 12:30 Analyzed 02/26/23 03:25	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55	Analyzed 02/27/23 12:30 Analyzed 02/26/23 03:25 02/26/23 03:25	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55	Analyzed 02/27/23 12:30 Analyzed 02/26/23 03:25 02/26/23 03:25	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared	Analyzed 02/27/23 12:30 Analyzed 02/26/23 03:25 02/26/23 03:25 02/26/23 03:25 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	el Range Organ	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared 02/25/23 08:55	Analyzed 02/27/23 12:30 Analyzed 02/26/23 03:25 02/26/23 03:25 Analyzed 02/26/23 03:25	Dil Fa

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02/27/23 02:20

4.99

mg/Kg

20.1

Chloride

Job ID: 890-4167-1

Client: Ensolum Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: SW01 Lab Sample ID: 890-4167-11 Matrix: Solid

Date Collected: 02/21/23 11:15 Date Received: 02/21/23 14:21 Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/27/23 16:25	03/03/23 05:53	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/27/23 16:25	03/03/23 05:53	1
Ethylbenzene	<0.00198	U *+	0.00198	mg/Kg		02/27/23 16:25	03/03/23 05:53	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	mg/Kg		02/27/23 16:25	03/03/23 05:53	1
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		02/27/23 16:25	03/03/23 05:53	1
Xylenes, Total	<0.00396	U *+	0.00396	mg/Kg		02/27/23 16:25	03/03/23 05:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			02/27/23 16:25	03/03/23 05:53	1
1,4-Difluorobenzene (Surr)	84		70 - 130			02/27/23 16:25	03/03/23 05:53	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/03/23 13:41	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 12:30	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 03:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 03:47	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 08:55	02/26/23 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			02/25/23 08:55	02/26/23 03:47	1
o-Terphenyl	108		70 - 130			02/25/23 08:55	02/26/23 03:47	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					

Chloride 4.97 mg/Kg 02/27/23 02:26 27.3 **Client Sample ID: SW02** Lab Sample ID: 890-4167-12

Date Collected: 02/21/23 11:20 Date Received: 02/21/23 14:21

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/27/23 16:25	03/03/23 06:13	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/27/23 16:25	03/03/23 06:13	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		02/27/23 16:25	03/03/23 06:13	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		02/27/23 16:25	03/03/23 06:13	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		02/27/23 16:25	03/03/23 06:13	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		02/27/23 16:25	03/03/23 06:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			02/27/23 16:25	03/03/23 06:13	1

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Client: Ensolum

Job ID: 890-4167-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: SW02 Lab Sample ID: 890-4167-12

Date Collected: 02/21/23 11:20 Date Received: 02/21/23 14:21 Sample Depth: 0 - 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 02/27/23 16:25 1,4-Difluorobenzene (Surr) 03/03/23 06:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00402 0.00402 03/03/23 13:41 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

RL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 49.9 mg/Kg 02/27/23 12:30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <49.9 U Gasoline Range Organics 49.9 mg/Kg 02/25/23 08:55 02/26/23 04:08 (GRO)-C6-C10 <49.9 U 49.9 mg/Kg 02/25/23 08:55 02/26/23 04:08 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 02/25/23 08:55 02/26/23 04:08

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 119 70 - 130 02/25/23 08:55 02/26/23 04:08 02/25/23 08:55 116 70 - 130 02/26/23 04:08 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 4.95 02/27/23 05:21 Chloride 7.04 mg/Kg

Client Sample ID: SW03 Lab Sample ID: 890-4167-13

Date Collected: 02/21/23 11:25

Date Received: 02/21/23 14:21

Sample Depth: 0 - 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00202 U 0.00202 mg/Kg 02/27/23 16:25 03/03/23 06:34 Toluene <0.00202 U 0.00202 02/27/23 16:25 03/03/23 06:34 mg/Kg Ethylbenzene <0.00202 U*+ 0.00202 02/27/23 16:25 03/03/23 06:34 mg/Kg 03/03/23 06:34 m-Xylene & p-Xylene <0.00403 U*+ 0.00403 02/27/23 16:25 mg/Kg o-Xylene <0.00202 U*+ 0.00202 mg/Kg 02/27/23 16:25 03/03/23 06:34 Xylenes, Total <0.00403 U*+ 0.00403 mg/Kg 02/27/23 16:25 03/03/23 06:34

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 106 02/27/23 16:25 03/03/23 06:34 1,4-Difluorobenzene (Surr) 79 70 - 130 02/27/23 16:25 03/03/23 06:34

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL D Unit Prepared Analyzed Dil Fac Total BTEX <0.00403 0.00403 03/03/23 13:41 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <50.0 U Total TPH 50.0 mg/Kg 02/27/23 12:30

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Job ID: 890-4167-1

Client: Ensolum Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: SW03 Lab Sample ID: 890-4167-13

Date Collected: 02/21/23 11:25 Matrix: Solid Date Received: 02/21/23 14:21

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/26/23 04:30	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/26/23 04:30	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/26/23 04:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			02/25/23 08:55	02/26/23 04:30	1
o-Terphenyl	109		70 - 130			02/25/23 08:55	02/26/23 04:30	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	NL.	Onit		rreparea	Allulyzou	Dii i ac

Client Sample ID: SW04 Lab Sample ID: 890-4167-14 Matrix: Solid

Date Collected: 02/21/23 11:30 Date Received: 02/21/23 14:21

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 16:25	03/03/23 06:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/27/23 16:25	03/03/23 06:54	1
Ethylbenzene	< 0.00199	U *+	0.00199	mg/Kg		02/27/23 16:25	03/03/23 06:54	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		02/27/23 16:25	03/03/23 06:54	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		02/27/23 16:25	03/03/23 06:54	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		02/27/23 16:25	03/03/23 06:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			02/27/23 16:25	03/03/23 06:54	1
1,4-Difluorobenzene (Surr)	83		70 - 130			02/27/23 16:25	03/03/23 06:54	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/23 13:41	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 12:30	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/26/23 04:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/26/23 04:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/26/23 04:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1 Ohlana atana	113		70 - 130			02/25/23 08:55	02/26/23 04:52	
1-Chlorooctane	113		70 - 750			02/20/20 00.00	02/20/20 04.02	,

Client Sample Results

 Client: Ensolum
 Job ID: 890-4167-1

 Project/Site: Remuda 4.24.30 CTB
 SDG: 03C1558152

Client Sample ID: SW04

Lab Sample ID: 890-4167-14

Date Collected: 02/21/23 11:30 Matrix: Solid
Date Received: 02/21/23 14:21

Sample Depth: 0 - 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualif	fier RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	22.7	5.00	mg/Kg			02/27/23 05:32	1	

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Surrogate Summary

 Client: Ensolum
 Job ID: 890-4167-1

 Project/Site: Remuda 4.24.30 CTB
 SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-25040-A-1-C MS	Matrix Spike	122	97	
880-25040-A-1-D MSD	Matrix Spike Duplicate	124	100	
890-4167-1	FS01	113	85	
890-4167-2	FS02	115	83	
890-4167-3	FS03	101	82	
890-4167-4	FS04	130	89	
890-4167-5	FS05	87	91	
890-4167-6	FS06	111	77	
890-4167-7	FS07	96	90	
890-4167-8	FS08	107	79	
890-4167-9	FS09	116	83	
890-4167-10	FS10	107	81	
890-4167-11	SW01	110	84	
890-4167-12	SW02	84	74	
890-4167-13	SW03	106	79	
890-4167-14	SW04	98	83	
LCS 880-47353/1-A	Lab Control Sample	121	112	
LCSD 880-47353/2-A	Lab Control Sample Dup	132 S1+	87	
MB 880-47353/5-A	Method Blank	76	87	
MB 880-47616/5-A	Method Blank	83	83	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Sur
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-25168-A-21-B MS	Matrix Spike	114	113	
880-25168-A-21-C MSD	Matrix Spike Duplicate	112	103	
890-4167-1	FS01	108	119	
890-4167-2	FS02	119	123	
890-4167-3	FS03	109	117	
890-4167-4	FS04	106	114	
890-4167-5	FS05	121	119	
890-4167-6	FS06	119	120	
890-4167-7	FS07	125	123	
890-4167-8	FS08	120	115	
890-4167-9	FS09	102	106	
890-4167-10	FS10	99	99	
890-4167-11	SW01	113	108	
890-4167-12	SW02	119	116	
890-4167-13	SW03	115	109	
890-4167-14	SW04	113	108	
LCS 880-47228/2-A	Lab Control Sample	106	120	
LCSD 880-47228/3-A	Lab Control Sample Dup	105	107	
MB 880-47228/1-A	Method Blank	147 S1+	163 S1+	

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on Tunes Tetal/NA

Surrogate Summary

Client: Ensolum

Project/Site: Remuda 4.24.30 CTB

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Job ID: 890-4167-1 SDG: 03C1558152

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Client: Ensolum

Job ID: 890-4167-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47353/5-A

Analysis Batch: 47603

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47353

	МВ	мв						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:25	03/02/23 23:01	
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:25	03/02/23 23:01	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:25	03/02/23 23:01	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/27/23 16:25	03/02/23 23:01	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:25	03/02/23 23:01	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/27/23 16:25	03/02/23 23:01	

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76	70 - 130	02/27/23 16:25	03/02/23 23:01	1
1,4-Difluorobenzene (Surr)	87	70 ₋ 130	02/27/23 16:25	03/02/23 23:01	1

Lab Sample ID: LCS 880-47353/1-A

Matrix: Solid

Analysis Batch: 47603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47353

	Spike	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1187		mg/Kg		119	70 - 130	
Toluene	0.100	0.1090		mg/Kg		109	70 - 130	
Ethylbenzene	0.100	0.1165		mg/Kg		117	70 - 130	
m-Xylene & p-Xylene	0.200	0.2501		mg/Kg		125	70 - 130	
o-Xylene	0.100	0.1280		mg/Kg		128	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	121	70 - 130
1,4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: LCSD 880-47353/2-A

Matrix: Solid

Analysis Batch: 47603

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 47353

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1225 mg/Kg 122 70 - 130 3 35 Toluene 0.100 0.1144 mg/Kg 114 70 - 130 5 35 Ethylbenzene 0.100 0.1309 *+ mg/Kg 131 70 - 130 12 35 0.200 0.2797 *+ m-Xylene & p-Xylene mg/Kg 140 70 - 130 11 35 0.100 0.1406 *+ o-Xylene mg/Kg 141 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1.4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-25040-A-1-C MS

Matrix: Solid

Analysis Batch: 47603

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 47353

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.09836		mg/Kg	_	98	70 - 130	
Toluene	<0.00202	U	0.100	0.08243		mg/Kg		82	70 - 130	

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Prep Type: Total/NA

Prep Type: Total/NA

11

Prep Batch: 47353

QC Sample Results

Job ID: 890-4167-1 Client: Ensolum Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-25040-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid Analysis Batch: 47603

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U *+	0.100	0.07838		mg/Kg		78	70 - 130	
m-Xylene & p-Xylene	<0.00403	U *+	0.201	0.1665		mg/Kg		83	70 - 130	
o-Xylene	<0.00202	U *+	0.100	0.08466		mg/Kg		84	70 - 130	

MS MS

<0.00403 U*+

<0.00202 U*+

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	122	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 880-25040-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

0.198

0.0990

Matrix: Solid Analysis Batch: 47603

m-Xylene & p-Xylene

o-Xylene

Prep Batch: 47353 Sample Sample Spike MSD MSD RPD Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier Unit Limits Benzene <0.00202 U 0.0990 0.08508 mg/Kg 86 70 - 130 14 35 79 Toluene <0.00202 U 0.0990 0.07814 mg/Kg 70 - 130 5 35 Ethylbenzene <0.00202 U*+ 0.0990 0.07154 mg/Kg 72 70 - 130 9 35

0.1487

0.07733

mg/Kg

mg/Kg

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 124 1,4-Difluorobenzene (Surr) 70 - 130 100

Lab Sample ID: MB 880-47616/5-A

Matrix: Solid

Analysis Batch: 47603

Client Sample ID: Method Blank Prep Type: Total/NA

70 - 130

70 - 130

75

77

Prep Batch: 47616

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/23 09:28	03/02/23 11:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/23 09:28	03/02/23 11:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/23 09:28	03/02/23 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/02/23 09:28	03/02/23 11:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/23 09:28	03/02/23 11:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/02/23 09:28	03/02/23 11:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/02/23 09:28	03/02/23 11:08	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	03/02/23 09:28	03/02/23 11:08	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/02/23 09:28	03/02/23 11:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-47228/1-A

Matrix: Solid

Analysis Batch: 47221

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 47228

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed <50.0 U 50.0 mg/Kg 02/25/23 08:55 02/25/23 20:13 Gasoline Range Organics

(GRO)-C6-C10

Eurofins Carlsbad

Client: Ensolum

Job ID: 890-4167-1

SDG: 03C1558152

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-47228/1-A **Matrix: Solid**

Project/Site: Remuda 4.24.30 CTB

Analysis Batch: 47221

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 47228

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/25/23 20:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 08:55	02/25/23 20:13	1
	MR	MR						

%Recovery Qualifier Limits Prepared Analyzed Dil Fac 147 S1+ 70 - 130 02/25/23 08:55 02/25/23 20:13 70 - 130 02/25/23 08:55 02/25/23 20:13 163 S1+

Lab Sample ID: LCS 880-47228/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Analysis Batch: 47221

Surrogate

o-Terphenyl

1-Chlorooctane

Prep Type: Total/NA Prep Batch: 47228 LCS LCS Spike

Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 969.7 97 70 - 130 mg/Kg (GRO)-C6-C10 1000 1086 Diesel Range Organics (Over mg/Kg 109 70 - 130 C10-C28)

LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 106 o-Terphenyl 120 70 - 130

Lab Sample ID: LCSD 880-47228/3-A

Matrix: Solid

Analysis Batch: 47221

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 47228

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	968.1		mg/Kg		97	70 - 130	0	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	951.5		mg/Kg		95	70 - 130	13	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 105 70 - 130 o-Terphenyl 107 70 - 130

Lab Sample ID: 880-25168-A-21-B MS

Matrix: Solid

Analysis Batch: 47221

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 47228

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	1095		mg/Kg		107	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1035		mg/Kg		104	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	113		70 - 130

Job ID: 890-4167-1

Client: Ensolum Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-25168-A-21-C MSD							Client Sample ID: Matrix Spike Duplicate						
Matrix: Solid						Prep 1	Type: To	tal/NA					
Analysis Batch: 47221									Prep	Batch:	47228		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Gasoline Range Organics	<49.9	U F2	999	836 1	F2	ma/Ka		81	70 - 130	27	20		

ts RPD Limit	
130 27 20	
130 11 20	
	130 27 20

	MSD			
Surrogate	%Recovery	Qualifier	Limits	
1-Chlorooctane			70 - 130	
o-Terphenyl	103		70 - 130	

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47101/1-A	Client Sample ID: Method Blank
Matrix: Solid	Prep Type: Soluble

Analysis Batch: 47257

	INID	IAID						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	П	5.00	ma/Ka			02/26/23 23:36	1

Lab Sample ID: LCS 880-47101/2-A	Client Sample ID: Lab Control Sample
Matrix: Solid	Prep Type: Soluble
Analysis Batch: 47257	

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	253.6		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-47101/3-A	Client Sample ID: Lab Control Sample Dup
Matrix: Solid	Prep Type: Soluble

Analysis Batch: 47257

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	257.0		mg/Kg		103	90 - 110	1	20	

Lab Sample ID: 890-4167-2 MS	Client Sample ID: FS02
Matrix: Solid	Prep Type: Soluble

Analysis Batch: 47257

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	22.6	F1	249	331 3	F1	ma/Ka		124	90 110	

Lab Sample ID: 890-4167-2 MSD	Client Sample ID: FS02
Matrix: Solid	Prep Type: Soluble

Matrix: Solid Analysis Batch: 47257

7 maryoro Batom 11 201												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	22 6	F1	249	318.5	F1	ma/Ka		119	90 - 110	4	20	

QC Sample Results

Job ID: 890-4167-1 Client: Ensolum Project/Site: Remuda 4.24.30 CTB

SDG: 03C1558152

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-47148/1-A

Matrix: Solid

Analysis Batch: 47261

Analyte

Chloride

Client Sample ID: Method Blank **Prep Type: Soluble**

MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac <5.00 U 5.00 mg/Kg 02/27/23 02:54

Lab Sample ID: LCS 880-47148/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47261

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 258.3 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-47148/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47261

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 254.7 mg/Kg 102 90 - 110

Lab Sample ID: 890-4164-A-5-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47261

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 16.3 249 273.0 103 90 - 110 mg/Kg

Lab Sample ID: 890-4164-A-5-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47261

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 16.3 270.1 mg/Kg 102 90 - 110 20

Client: Ensolum Job ID: 890-4167-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

GC VOA

Prep Batch: 47353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4167-1	FS01	Total/NA	Solid	5035	
890-4167-2	FS02	Total/NA	Solid	5035	
890-4167-3	FS03	Total/NA	Solid	5035	
890-4167-4	FS04	Total/NA	Solid	5035	
890-4167-5	FS05	Total/NA	Solid	5035	
890-4167-6	FS06	Total/NA	Solid	5035	
890-4167-7	FS07	Total/NA	Solid	5035	
890-4167-8	FS08	Total/NA	Solid	5035	
890-4167-9	FS09	Total/NA	Solid	5035	
890-4167-10	FS10	Total/NA	Solid	5035	
890-4167-11	SW01	Total/NA	Solid	5035	
890-4167-12	SW02	Total/NA	Solid	5035	
890-4167-13	SW03	Total/NA	Solid	5035	
890-4167-14	SW04	Total/NA	Solid	5035	
MB 880-47353/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47353/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47353/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25040-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-25040-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4167-1	FS01	Total/NA	Solid	8021B	47353
890-4167-2	FS02	Total/NA	Solid	8021B	47353
890-4167-3	FS03	Total/NA	Solid	8021B	47353
890-4167-4	FS04	Total/NA	Solid	8021B	47353
890-4167-5	FS05	Total/NA	Solid	8021B	47353
890-4167-6	FS06	Total/NA	Solid	8021B	47353
890-4167-7	FS07	Total/NA	Solid	8021B	47353
890-4167-8	FS08	Total/NA	Solid	8021B	47353
890-4167-9	FS09	Total/NA	Solid	8021B	47353
890-4167-10	FS10	Total/NA	Solid	8021B	47353
890-4167-11	SW01	Total/NA	Solid	8021B	47353
890-4167-12	SW02	Total/NA	Solid	8021B	47353
890-4167-13	SW03	Total/NA	Solid	8021B	47353
890-4167-14	SW04	Total/NA	Solid	8021B	47353
MB 880-47353/5-A	Method Blank	Total/NA	Solid	8021B	47353
MB 880-47616/5-A	Method Blank	Total/NA	Solid	8021B	47616
LCS 880-47353/1-A	Lab Control Sample	Total/NA	Solid	8021B	47353
LCSD 880-47353/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47353
880-25040-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	47353
880-25040-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47353

Prep Batch: 47616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47616/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 47757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4167-1	FS01	Total/NA	Solid	Total BTEX	
890-4167-2	FS02	Total/NA	Solid	Total BTEX	

Client: Ensolum Job ID: 890-4167-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

GC VOA (Continued)

Analysis Batch: 47757 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4167-3	FS03	Total/NA	Solid	Total BTEX	
890-4167-4	FS04	Total/NA	Solid	Total BTEX	
890-4167-5	FS05	Total/NA	Solid	Total BTEX	
890-4167-6	FS06	Total/NA	Solid	Total BTEX	
890-4167-7	FS07	Total/NA	Solid	Total BTEX	
890-4167-8	FS08	Total/NA	Solid	Total BTEX	
890-4167-9	FS09	Total/NA	Solid	Total BTEX	
890-4167-10	FS10	Total/NA	Solid	Total BTEX	
890-4167-11	SW01	Total/NA	Solid	Total BTEX	
890-4167-12	SW02	Total/NA	Solid	Total BTEX	
890-4167-13	SW03	Total/NA	Solid	Total BTEX	
890-4167-14	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4167-1	FS01	Total/NA	Solid	8015B NM	47228
890-4167-2	FS02	Total/NA	Solid	8015B NM	47228
890-4167-3	FS03	Total/NA	Solid	8015B NM	47228
890-4167-4	FS04	Total/NA	Solid	8015B NM	47228
890-4167-5	FS05	Total/NA	Solid	8015B NM	47228
890-4167-6	FS06	Total/NA	Solid	8015B NM	47228
890-4167-7	FS07	Total/NA	Solid	8015B NM	47228
890-4167-8	FS08	Total/NA	Solid	8015B NM	47228
890-4167-9	FS09	Total/NA	Solid	8015B NM	47228
890-4167-10	FS10	Total/NA	Solid	8015B NM	47228
890-4167-11	SW01	Total/NA	Solid	8015B NM	47228
890-4167-12	SW02	Total/NA	Solid	8015B NM	47228
890-4167-13	SW03	Total/NA	Solid	8015B NM	47228
890-4167-14	SW04	Total/NA	Solid	8015B NM	47228
MB 880-47228/1-A	Method Blank	Total/NA	Solid	8015B NM	47228
LCS 880-47228/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47228
LCSD 880-47228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47228
880-25168-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	47228
880-25168-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47228

Prep Batch: 47228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4167-1	FS01	Total/NA	Solid	8015NM Prep	
890-4167-2	FS02	Total/NA	Solid	8015NM Prep	
890-4167-3	FS03	Total/NA	Solid	8015NM Prep	
890-4167-4	FS04	Total/NA	Solid	8015NM Prep	
890-4167-5	FS05	Total/NA	Solid	8015NM Prep	
890-4167-6	FS06	Total/NA	Solid	8015NM Prep	
890-4167-7	FS07	Total/NA	Solid	8015NM Prep	
890-4167-8	FS08	Total/NA	Solid	8015NM Prep	
890-4167-9	FS09	Total/NA	Solid	8015NM Prep	
890-4167-10	FS10	Total/NA	Solid	8015NM Prep	
390-4167-11	SW01	Total/NA	Solid	8015NM Prep	
890-4167-12	SW02	Total/NA	Solid	8015NM Prep	

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Client: Ensolum Job ID: 890-4167-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

GC Semi VOA (Continued)

Prep Batch: 47228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4167-13	SW03	Total/NA	Solid	8015NM Prep	
890-4167-14	SW04	Total/NA	Solid	8015NM Prep	
MB 880-47228/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47228/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25168-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25168-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4167-1	FS01	Total/NA	Solid	8015 NM	_
890-4167-2	FS02	Total/NA	Solid	8015 NM	
890-4167-3	FS03	Total/NA	Solid	8015 NM	
890-4167-4	FS04	Total/NA	Solid	8015 NM	
890-4167-5	FS05	Total/NA	Solid	8015 NM	
890-4167-6	FS06	Total/NA	Solid	8015 NM	
890-4167-7	FS07	Total/NA	Solid	8015 NM	
890-4167-8	FS08	Total/NA	Solid	8015 NM	
890-4167-9	FS09	Total/NA	Solid	8015 NM	
890-4167-10	FS10	Total/NA	Solid	8015 NM	
890-4167-11	SW01	Total/NA	Solid	8015 NM	
890-4167-12	SW02	Total/NA	Solid	8015 NM	
890-4167-13	SW03	Total/NA	Solid	8015 NM	
890-4167-14	SW04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 47101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4167-1	FS01	Soluble	Solid	DI Leach	_
890-4167-2	FS02	Soluble	Solid	DI Leach	
390-4167-3	FS03	Soluble	Solid	DI Leach	
890-4167-4	FS04	Soluble	Solid	DI Leach	
890-4167-5	FS05	Soluble	Solid	DI Leach	
890-4167-6	FS06	Soluble	Solid	DI Leach	
890-4167-7	FS07	Soluble	Solid	DI Leach	
890-4167-8	FS08	Soluble	Solid	DI Leach	
890-4167-9	FS09	Soluble	Solid	DI Leach	
890-4167-10	FS10	Soluble	Solid	DI Leach	
890-4167-11	SW01	Soluble	Solid	DI Leach	
MB 880-47101/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47101/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47101/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4167-2 MS	FS02	Soluble	Solid	DI Leach	
890-4167-2 MSD	FS02	Soluble	Solid	DI Leach	

Leach Batch: 47148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4167-12	SW02	Soluble	Solid	DI Leach	
890-4167-13	SW03	Soluble	Solid	DI Leach	
890-4167-14	SW04	Soluble	Solid	DI Leach	

 Client: Ensolum
 Job ID: 890-4167-1

 Project/Site: Remuda 4.24.30 CTB
 SDG: 03C1558152

HPLC/IC (Continued)

Leach Batch: 47148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47148/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47148/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47148/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4164-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4164-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 47257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4167-1	FS01	Soluble	Solid	300.0	47101
890-4167-2	FS02	Soluble	Solid	300.0	47101
890-4167-3	FS03	Soluble	Solid	300.0	47101
890-4167-4	FS04	Soluble	Solid	300.0	47101
890-4167-5	FS05	Soluble	Solid	300.0	47101
890-4167-6	FS06	Soluble	Solid	300.0	47101
890-4167-7	FS07	Soluble	Solid	300.0	47101
890-4167-8	FS08	Soluble	Solid	300.0	47101
890-4167-9	FS09	Soluble	Solid	300.0	47101
890-4167-10	FS10	Soluble	Solid	300.0	47101
890-4167-11	SW01	Soluble	Solid	300.0	47101
MB 880-47101/1-A	Method Blank	Soluble	Solid	300.0	47101
LCS 880-47101/2-A	Lab Control Sample	Soluble	Solid	300.0	47101
LCSD 880-47101/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47101
890-4167-2 MS	FS02	Soluble	Solid	300.0	47101
890-4167-2 MSD	FS02	Soluble	Solid	300.0	47101

Analysis Batch: 47261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4167-12	SW02	Soluble	Solid	300.0	47148
890-4167-13	SW03	Soluble	Solid	300.0	47148
890-4167-14	SW04	Soluble	Solid	300.0	47148
MB 880-47148/1-A	Method Blank	Soluble	Solid	300.0	47148
LCS 880-47148/2-A	Lab Control Sample	Soluble	Solid	300.0	47148
LCSD 880-47148/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47148
890-4164-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	47148
890-4164-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	47148

Lab Sample ID: 890-4167-1

Date Collected: 02/21/23 09:30 Date Received: 02/21/23 14:21

Client Sample ID: FS01

Client: Ensolum

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	47353	02/27/23 16:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 01:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/25/23 23:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 01:07	CH	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-4167-2

Date Collected: 02/21/23 09:35 Date Received: 02/21/23 14:21

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 47353 Total/NA 4.99 g 5 mL 02/27/23 16:25 MNR EET MID Total/NA 8021B 5 mL 03/03/23 01:46 **EET MID** Analysis 1 5 mL 47603 MNR Total/NA Total BTEX 47757 03/03/23 13:41 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 47326 02/27/23 12:30 SM **EET MID** Total/NA 47228 Prep 8015NM Prep 10.02 g 10 mL 02/25/23 08:55 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 47221 02/26/23 00:11 SM **EET MID** Soluble 5.03 g 47101 Leach DI Leach 50 mL 02/23/23 15:20 KS EET MID Soluble Analysis 300.0 47257 02/27/23 01:12 СН **EET MID**

Client Sample ID: FS03 Lab Sample ID: 890-4167-3

Date Received: 02/21/23 14:21

Date Collected: 02/21/23 09:40 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47353	02/27/23 16:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 02:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/26/23 00:32	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 01:29	CH	EET MID

Lab Sample ID: 890-4167-4 **Client Sample ID: FS04**

Date Collected: 02/21/23 10:40 Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	47353	02/27/23 16:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 02:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MID

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Client: Ensolum Job ID: 890-4167-1

SDG: 03C1558152 Project/Site: Remuda 4.24.30 CTB **Client Sample ID: FS04** Lab Sample ID: 890-4167-4

Date Collected: 02/21/23 10:40 Matrix: Solid Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/26/23 00:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 01:35	CH	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-4167-5

Date Collected: 02/21/23 10:45 **Matrix: Solid**

Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	47353	02/27/23 16:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 03:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/26/23 01:15	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 01:52	CH	EET MID

Client Sample ID: FS06 Lab Sample ID: 890-4167-6

Date Collected: 02/21/23 10:50 Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47353	02/27/23 16:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 04:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/26/23 01:58	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 01:57	CH	EET MID

Lab Sample ID: 890-4167-7 **Client Sample ID: FS07**

Date Collected: 02/21/23 10:55 Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47353	02/27/23 16:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 04:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	47228 47221	02/25/23 08:55 02/26/23 02:20	AJ SM	EET MID EET MID

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Matrix: Solid

Client: Ensolum Job ID: 890-4167-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: FS07 Lab Sample ID: 890-4167-7

Date Collected: 02/21/23 10:55 Matrix: Solid Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 02:03	CH	EET MID

Client Sample ID: FS08 Lab Sample ID: 890-4167-8

Date Collected: 02/21/23 11:00 **Matrix: Solid**

Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47353	02/27/23 16:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 04:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/26/23 02:42	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 02:09	CH	EET MID

Client Sample ID: FS09 Lab Sample ID: 890-4167-9

Date Collected: 02/21/23 11:05 **Matrix: Solid** Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	47353	02/27/23 16:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 05:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/26/23 03:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 02:14	CH	EET MID

Client Sample ID: FS10 Lab Sample ID: 890-4167-10 Date Collected: 02/21/23 11:10 **Matrix: Solid**

Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	47353	02/27/23 16:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 05:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/26/23 03:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 02:20	CH	EET MID

Client: Ensolum

Job ID: 890-4167-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: SW01 Lab Sample ID: 890-4167-11

Date Collected: 02/21/23 11:15 Matrix: Solid Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	47353	02/27/23 16:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 05:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/26/23 03:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 02:26	CH	EET MID

Client Sample ID: SW02 Lab Sample ID: 890-4167-12

Date Collected: 02/21/23 11:20 Matrix: Solid

Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	47353	02/27/23 16:25	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 06:13	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MIC
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/26/23 04:08	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47148	02/24/23 10:27	KS	EET MID
Soluble	Analysis	300.0		1			47261	02/27/23 05:21	CH	EET MI

Client Sample ID: SW03 Lab Sample ID: 890-4167-13 Date Collected: 02/21/23 11:25

Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	47353	02/27/23 16:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 06:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/26/23 04:30	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	47148	02/24/23 10:27	KS	EET MID
Soluble	Analysis	300.0		1			47261	02/27/23 05:26	CH	EET MID

Client Sample ID: SW04 Lab Sample ID: 890-4167-14 Date Collected: 02/21/23 11:30 **Matrix: Solid**

Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47353	02/27/23 16:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47603	03/03/23 06:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47757	03/03/23 13:41	SM	EET MID

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Lab Chronicle

Client: Ensolum Job ID: 890-4167-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Client Sample ID: SW04 Lab Sample ID: 890-4167-14

Date Collected: 02/21/23 11:30 Matrix: Solid Date Received: 02/21/23 14:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47326	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/26/23 04:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47148	02/24/23 10:27	KS	EET MID
Soluble	Analysis	300.0		1			47261	02/27/23 05:32	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4167-1 Project/Site: Remuda 4.24.30 CTB

SDG: 03C1558152

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pi	rogram	Identification Number	Expiration Date		
Texas		ELAP	T104704400-22-25	06-30-23		
The following analytes the agency does not of	• •	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo		
Analysis Method Prep Method		Matrix	Analyte	Analyte		
8015 NM		Solid	Total TPH			
Total BTEX		Solid	Total BTEX			

Method Summary

Client: Ensolum

Job ID: 890-4167-1 Project/Site: Remuda 4.24.30 CTB SDG: 03C1558152

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Ensolum

Project/Site: Remuda 4.24.30 CTB

Job ID: 890-4167-1

SDG: 03C1558152

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4167-1	FS01	Solid	02/21/23 09:30	02/21/23 14:21	1
890-4167-2	FS02	Solid	02/21/23 09:35	02/21/23 14:21	1
890-4167-3	FS03	Solid	02/21/23 09:40	02/21/23 14:21	1
890-4167-4	FS04	Solid	02/21/23 10:40	02/21/23 14:21	2
890-4167-5	FS05	Solid	02/21/23 10:45	02/21/23 14:21	2
890-4167-6	FS06	Solid	02/21/23 10:50	02/21/23 14:21	2
890-4167-7	FS07	Solid	02/21/23 10:55	02/21/23 14:21	2
890-4167-8	FS08	Solid	02/21/23 11:00	02/21/23 14:21	2
890-4167-9	FS09	Solid	02/21/23 11:05	02/21/23 14:21	2
890-4167-10	FS10	Solid	02/21/23 11:10	02/21/23 14:21	2
890-4167-11	SW01	Solid	02/21/23 11:15	02/21/23 14:21	0 - 2
890-4167-12	SW02	Solid	02/21/23 11:20	02/21/23 14:21	0 - 2
890-4167-13	SW03	Solid	02/21/23 11:25	02/21/23 14:21	0 - 2
890-4167-14	SW04	Solid	02/21/23 11:30	02/21/23 14:21	0 - 2

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Chain of Custody

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gnature) Date/Time	re) Received by: (Signature)	Relinquished by: (Signature)	Date/Time		Receixed by: (Signature)	Receixed by	nature)	Relinquished by: (Signature)
	previously negotiated.	Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	rofins Xenco, but not an	sample submitted to E	d a charge of \$5 for each	to each project and	rge of \$85.00 will be applied	Eurofins Xenco. A minimum cha
	s and conditions ond the control	otice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	ins Xenco, its affiliates an es incurred by the client	client company to Euro for any losses or expen	lid purchase order from ssume any responsibility	oles constitutes a val	and relinquishment of samp	itce: Signature of this documen service. Eurofins Xenco will be l
Hg: 1631 / 245.1 / 7470 / 7471		TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se	b As Ba Be Cd	010 : 8RCRA S	TCLP / SPLP 6	alyzed	Metal(s) to be an	ircle Method(s) and Metal(s) to be analyzed
Na Sr Tl Sn U V Zn	n Mo Ni K Se	Cd Ca Cr Co Cu Fe Pb Mg	Al Sb As Ba Be B Co	Texas 11 Al Sb	8RCRA 13PPM T	8R0	200.8 / 6020:	Total 200.7 / 6010
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Cost Center					1040 2			F504
>>					0940 +			FS03
NAPP2233351770					0735	_		ES02
Incadent#			XXX	0	0930 1	2/21/23	S	FSOI
Sample Comments			BT	th Grab/ # of Cont	Time Depth	Date Sampled	on Matrix	Sample Identification
NGOTHASCOIDIC ACID. DATC	-	-	10	2	nperature: O	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn	of Custody	890-4167 Chain of C	_	7	Reading:	Temperature Reading:	Yes No N/A	Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃			ત ન	P:	ctor:	Correction Factor:	Yes No N/A	Cooler Custody Seals:
NaHSO 4: NABIS			دّ	UMOO J	1	Thermometer ID:	1 (Yes) No	amples Received Intact:
H ₃ PO :: HP				Yes No neter	Wet Ice:	No No	Temp Blank:	AMPLE RECEIPT
H ₂ SO ₄ : H ₂ NaOH: Na				_	the lab, if received b			0 #:
				eived by	TAT starts the day received by		Meredith Ruberts	
Cool: Cool MeOH: Me					Due Date:		32.25359, 703.88134	
None: NO DI Water: H ₂ O				Rush Code	MRoutine	-	03C1558152	ber:
Preservative Codes	ST	ANALYSIS REQUEST		d	Turn Around	30 CTB	Remuda 4.24.30 CTB	roject Name:
ADaPT Other:	Deliverables: EDD	Com	biociilleensolum. com	Silisada	Email:	52	989.854.0852	
PST/UST TRRP Level IV	Reporting: Level II Level III	NM 88220	Carlsbad,	City, State ZIP:	-	288	7	e ZIP:
]	State of Project:	Greene St	3104 E C	ess:	Hwy Address:	Parks H		
Brownfields RRC Superfund	Program: UST/PST PRP	Energy	XTO	Company Name:	Com	10	Enselum	ompany Name:
Work Order Comments	Work O	# Green	Garrett	Bill to: (if different)	Bill to		Ben Belly	roject Manager:
co.com Page 1 of 2	www.xenco.com	d, NM (575) 988-3199	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM (S				
		k, TX (806) 794-1296	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, TX (9			Xenco	
NO	Work Order No:	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	2) 704-5440, San Anto	Midland, TX (43	ring	Environment lesting	Environ	
	الماميان الماميان	s, 1X (214) 902-0300	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	Houston, IX	4		_	S. Carollia

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Deliverables: EDD ADaPT Other:			CON Email:
evel III [Carlsbad, NM 88220	City, State ZIP:	ad NM 88220
	3104 E Greene St	Address:	Vat'l Parks Hwy
Program: UST/PST PRP Brownfields RRC Superfund	110 Energy	Company Name:	m, LLC
Work Order Comments	Garrett Green	Bill to: (if different)	Beim
www.xenco.com Page & of &			
د	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM	
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, TX	Xenco
Work Order No:	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Midland, TX (Environment lesting
			-

Meredith Roberts 32.25359,-103.88134

Due Date:

Project Location:

Project Number: Project Name:

Remuda 4-24 30 (TB

Turn Around Rush

Code

ANALYSIS REQUEST

Cool: Cool

None: NO

DI Water: H2O MeOH: Me

Preservative Codes

0301558152

Address:

3122 Nat'I Parks Ensolum, LLC

City, State ZIP:

Project Manager:

Ben

Company Name:

SIMPLE RECEIPT Temp Blank: Yes No. June Follower by Allipm Samples Received In Sample Control Stands: Yes No. June Follower by Allipm Samples Received In Sample Control Stands: Yes No. June Follower by Allipm Samples Received In Sample Control Stands: Yes No. June Follower by Allipm Samples Received In Sample Control Stands: Yes No. NA. Temperature. Sample Control Stands: Yes No. June Follower by Allipm Sampled Sample Control Stands: Yes No. NA. Temperature. Sample Control Stands: Yes No. NA. Temperature. SAWO 3. 1115 0-27 C. J. X.	Revised Date: 08/25/2020 Rev. 2020.2		6					
Se Ag SiO ₂ Na Sr Hg: 1631 / 245.1 /			4					
Se Ag SiO ₂ Na Sr Hg: 1631 / 245.1 /			2	1-	2 -	8	7	A COSCILLA
Se Ag SiO ₂ Na Sr Hg: 1631 / 245.1 /		Received by: (Signature	Relinquished by: (Signature)	Date/Time		eived by; (Signature)	>	Relinquished by: (Signature
TAT starts the day received by the lab, if received by 430pm No where: Yes No early grading: Time Depth Grab/ # of PS V X X X X X X X X X X X X X X X X X X		lons rrol regotiated.	subcontractors. It assigns standard terms and condit such losses are due to circumstances beyond the con rzed. These terms will be enforced unless previously n	Eurofins Xenco, its affiliates and spenses incurred by the client if to Eurofins Xenco, but not analy	from client company to ibility for any losses or e reach sample submitted	stitutes a valid purchase order d shall not assume any respon n project and a charge of \$5 fo	nquishment of samples con for the cost of samples and 5.00 will be applied to each	otice: Signature of this document and reli service. Eurofins Xenco will be liable onh Eurofins Xenco. A minimum charge of \$8
TempBlank: Yes No Paramolecel by 430pm TempBlank: Yes No Paramolecel by 430pm Ves No N/A Temperature: Yes N/A Temperature: Y	TI Sn U V Zn 1/7470 /7471	Ni K Se Ag SiO ₂ Na Sr U Hg: 1631 / 245.1	Ca Cr Co Cu Fe Pb Mg Mn Mc r Co Cu Pb Mn Mo Ni Se Ag Tl	Sb As Ba Be B Cd	/ Texas 11 Al LP 6010 : 8RCR/		0.8 / 6020: l(s) to be analyze	Total 200.7 / 6010 20 ircle Method(s) and Meta
TempBlank: Yes No Warre: Yes No eters In Facewed by 430pm TempBlank: Yes No Themorleter ID Yes No Temperature: Yes No N/A Temperature: Yes No Matrix Sampled Sampled Sampled Comp Cont S 3/21/23 1115 0-27 C 1 X X X X X X X X X X X X X X X X X X								
Temp Blank: Yes No wee: Yes No yes No NA Temperature Reading: Yes No NA Temperature Sampled Sampled Sampled Comp Cont Sampled Sampled No NA Temperature: Yes No Yes N								
Temp Blank: Yes No Weste: Yes No Yes No No No Temperature: Yes No No Yes No No No Temperature: Yes No No No Temperature: Yes No No No No Temperature: Yes No No No No Temperature: Yes No No No Temperature: Yes No No No Temperature: Yes No	mobects@ensclum.u.						1	
Temp Blank: Yes No write: Yes No Yes No N/A Temperature: Yes No N/A Temperature: Sampled Sampled Sampled Connector C								
TempBlank: Yes No The lab if received by 4:30pm Yes No N/A Temperature Reading: Yes No N/A Temperature Reading: Yes No N/A Temperature: Sampled Sampled Depth Comp Cont Sampled Sampled 1120 1130 1130 Tar starts the day received by 4:30pm the lab if received by 4:30pm the	21248 71001		7	1		\		
TempBlank: Yes No The lab, if received by 4:30pm Yes No Date Sampled Sampled Content Sampled Sampled Content Sampled	Cost Center				,	1130	+	SW04
TempBlank: Yes No Themforeter ID Yes No The lab, if received by 4:30pm Yes No Themforeter ID Yes No Themforeter ID Yes No N/A Temperature Readility: Yes N						1125		SW03
Temp Blank: Yes No The lab, if received by 4:30pm Temp Blank: Yes No The lab, if received by 4:30pm Yes No The Torrect of Temperature: Yes No N/A Te	NAPP2233351770			_	_			LOWS
Temp Blank: Yes No The lab, if received by 4:30pm Temp Blank: Yes No The lab, if received by 4:30pm Yes No N/A Temperature Reading: Yes No N/A Temperature Reading: Yes No N/A Temperature Reading: Sampled Sampled Depth Comp Cont Sample	Incident # :			- X X			S 3/	SWOI
Temp Blank: Yes No Temp Blank: Y	Sample Comments			BT	Grab/ Comp			Sample Identification
Temp Blank: Yes No The flow the lab, if received by 4:30pm Temp Blank: Yes No The flow term term for feter ID Term for	NaOH+Ascorbic Acid: SAPC			10		rected Temperature:	Cor	Total Containers:
Temp Blank: Yes No Thermoreter ID Yes No Per	Zn Acetate+NaOH: Zn			ric		perature Reading:	No N/A	Sample Custody Seals: Ye
Temp Blank: Yes No The day received by 4:30pm Temp Blank: Yes No The forester ID Tall starts the day received by 4:30pm H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO 4: NABIS	Na ₂ S ₂ O ₃ : NaSO ₃					rect on Earlow		Cooler Custody Seals: Ye
Temp Blank: Yes No Yes	NaHSO 4: NABIS					morneter ID	No	Samples Received Intact:
Mencedith Roberts TAT starts the day received by the lab, if received by 4:30pm H ₂ SO ₄ : H ₂	H ₃ PO ₄ : HP			neter		No		SAMPLE RECEIPT 1
Mccclith Roberts TAT starts the day received by				s	ved by 4:30pm			PO #:
				_	lay received by		Jith Rober	Sampler's Name: Mcre

Page 38 of 41

1089 N Canal St **Eurofins Carlsbad**

13

Chain of Custody Record

<u> </u>	5	5		
K	X	П	•	Ų

eurofins :

Environment Testing

State, Zip **TX**, 79701 FS07 (890-4167-7) FS05 (890-4167-5) FS03 (890-4167-3) FS02 (890-4167-2) FS01 (890-4167-1) Sample Identification - Client ID (Lab ID) Remuda 4 24 30 CTB Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 ⁼S09 (890-4167-9) FS08 (890-4167-8) FS06 (890-4167-6) FS04 (890-4167-4) 432-704-5440(Tel) Midland ossible Hazard Identification lote Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to coreditation status should be brought to Eurofins Environment Testing South Central LLC. Client Information Deliverable Requested | II III IV Other (specify) Shipping/Receiving roject Name: Custody Seals Intact. elinquished by linquished by elinquished by: mpty Kit Relinquished by 211 W Florida Ave urofins Environment Testing South Centr Ύes ⊳ No TE S (Sub Contract Lab Custody Seal No Primary Deliverable Rank WO# Date/Time 89000093 PO# Phone FAT Requested (days): Due Date Requested /27/2023 2/21/23 2/21/23 2/21/23 2/21/23 2/21/23 2/21/23 2/21/23 2/21/23 2/21/23 Mountain 11 05 Mountain 10 50 Mountain 09 40 Date Mountain 11 00 Mountain 10 45 Mountain 10 40 Mountain 09 35 Mountair Mountain 10 55 Sample 09 30 2 (C=comp, G=grab) Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Kramer Jessica E-Mail lessica Kramer@et.eurofinsus com Field Filtered Sample (Yes or No) NELAP - Texas me: Accreditations Required (See note) Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Moni × × 8016MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks Received by × × × × × × × × × × × × × × × × 8015MOD_Calc × × \times × × × × 300_ORGFM_28D/DI_LEACH Chioride × 8021B/5035FP_Calc (MOD) BTEX × × × × × × × × Analysis Requested × × Total BTEX GCV × × × × × × × State of Origin: New Mexico Tracking No(s) of Shipment Date/ I me Total Number of containers 4161 4 * 14800 20 A HCL
B NAOH
C Zn Acetate
D Nitric Acid
E - NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid
J I Ice
J DI Water
K EDTA
L EDA COC No: 890-1144 1 Page: Preservation Codes 890-4167-1 Page 1 of 2 Special Instructions/Note M Hexane
N None
O AsNaO2
P Na2O4S
Q Na2SO3
R Na2SC3
R Na2SC3
T TSP Dodecahydrate
U Acetone
U Acetone
V MCAA W pH 4-5 Y Trizma Z other (sp Company Company Ver: 06/08/202 other (specify) Months

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4167-1

 SDG Number: 03C1558152

Login Number: 4167 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

OJ 212

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4167-1 SDG Number: 03C1558152

List Source: Eurofins Midland

Login Number: 4167 List Creation: 02/23/23 11:07 AM

Creator: Teel, Brianna

List Number: 2

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



APPENDIX E

NMOCD Notifications

From: Hamlet, Robert, EMNRD

To: Collins, Melanie

Cc: DelawareSpills /SM; Tacoma Morrissey; Ashley Ager; Green, Garrett J; Bratcher, Michael, EMNRD; Nobui,

Jennifer, EMNRD; Harimon, Jocelyn, EMNRD

Subject: (Extension Approval) XTO - Remuda 4-24-30 CTB nAPP2233351770

Date: Friday, February 17, 2023 2:19:06 PM

Attachments: <u>image003.png</u>

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2233351770

Melanie,

Your request for an extension to **May 19, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us

http://www.emnrd.state.nm.us/OCD/



From: Collins, Melanie <melanie.collins@exxonmobil.com>

Sent: Friday, February 17, 2023 11:56 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ashley Ager <aager@ensolum.com>; Green, Garrett J <garrett.green@exxonmobil.com>

Subject: [EXTERNAL] XTO Extension Request - Remuda 4-24-30 CTB nAPP2233351770

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO is requesting an extension for the current deadline of February 18, 2023 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Remuda Basin 4-24-30 CTB (Incident Number NAPP2233351770). The release occurred on November 20, 2022, and initial site assessment activities have been completed. Excavation activities are currently ongoing

and expected to be finalized the week of February 20, 2023. In order to complete remediation efforts, review the laboratory analytical results, and submit a remediation work plan or closure report, XTO requests an extension until May 19, 2023.

Thank you,

Melanie Collins



Environmental Technician melanie.collins@exxonmobil.com 432-556-3756

From: <u>Harimon, Jocelyn, EMNRD</u>

To: Green, Garrett J; Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD

Cc: Tacoma Morrissey; Ben Belill

Subject: RE: [EXTERNAL] XTO - Sampling Notification (Week of 1/16/23 - 1/20/23)

Date: Friday, January 13, 2023 12:23:50 PM

[**EXTERNAL EMAIL**]

Garrett,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>



From: Green, Garrett J <garrett.green@exxonmobil.com>

Sent: Friday, January 13, 2023 10:20 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Subject: [EXTERNAL] XTO - Sampling Notification (Week of 1/16/23 - 1/20/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

ΑII,

XTO plans to complete final sampling activities at the following sites the week of Jan 16, 2023.

- Remuda 4-24-30 / nAPP2233351770
- Big Sinks 2-24-30 / NAB1913729531
- Pickett Draw / NAB1919955454
- PLU PC 28 / nAPP2233349315
- Golden Child SWD / nAPP2232250506

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

Tacoma Morrissey

From: Green, Garrett J <garrett.green@exxonmobil.com>

Sent: Thursday, February 16, 2023 11:19 AM

To: Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet,

Robert, EMNRD

Cc: DelawareSpills /SM; Tacoma Morrissey

Subject: XTO - Sampling Notification (Week of 2/20/23 - 2/24/23)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of Feb 20, 2023.

- ADU 641 / nAPP2302355577
- Remuda 4-24-30 CTB / nAPP2233351770
- PLU C1 Frac / NAPP2304147175
- Row 2 / NAPP2304148392

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: Enviro, OCD, EMNRD [mailto:OCD.Enviro@emnrd.nm.gov]

Sent: Friday, January 6, 2023 8:13 AM

To: Green, Garrett J <garrett.green@exxonmobil.com>

Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>

Subject: RE: [EXTERNAL] XTO 48 Hour Liner Inspection Notification - Remuda Basin 4-24-30

nAPP2233351770 - Released on 11/20/2022

External Email - Think Before You Click

Garrett,

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file.

JΗ

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Green, Garrett J <<u>garrett.green@exxonmobil.com</u>>

Sent: Thursday, January 5, 2023 3:32 PM

To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>;

Harimon, Jocelyn, EMNRD < <u>Jocelyn.Harimon@emnrd.nm.gov</u>>

Cc: Tacoma Morrissey < tmorrissey@ensolum.com; DelawareSpills /SM DelawareSpills@exxonmobil.com

Subject: [EXTERNAL] XTO 48 Hour Liner Inspection Notification - Remuda Basin 4-24-30 nAPP2233351770 - Released on 11/20/2022

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

This is sent as a 48-hour notification, XTO is scheduled to inspect the lined containment at Remuda Basin 4-24-30 CTB released on (11/20/2022), on Monday, January 9, 2023, at 3:30pm MST. A 24 hour release notification was not sent out since the release was less than 25 barrels in volume. Please call us with any questions or concerns.

GPS Coordinates: (32.25345,-103.88173)

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc.
Remuda Basin 4-24-30 CTB
Incident Number NAPP2233351770





Photograph: 1 Date: 12/12/2024

Description: One call marking activities

View: Southeast

Photograph: 2 Date: 12/12/2024

Description: One call marking activities

View: East





Photograph: 3 Date: 12/19/2024

Description: Hand auger composite sampling activities

View: Southeast

Photograph: 4 Date: 12/19/2024 Description: Hand auger composite sampling activities

View: Southeast



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



December 27, 2024

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: REMUDA 4-24-30 CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/19/24 15:24.

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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/19/2024 Reported: 12/27/2024

Project Name: REMUDA 4-24-30 CTB

Project Number: 03C1558152

Project Location: XTO 32.25359-103.88134

Sampling Date: 12/19/2024

Sampling Type: Soil

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

Sample ID: SW 05 (H247700-01)

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	12/25/2024	ND	1.74	86.9	2.00	0.837	
Toluene*	<0.050	0.050	12/25/2024	ND	1.81	90.6	2.00	0.666	
Ethylbenzene*	<0.050	0.050	12/25/2024	ND	1.76	88.2	2.00	0.460	
Total Xylenes*	<0.150	0.150	12/25/2024	ND	5.15	85.9	6.00	0.392	
Total BTEX	<0.300	0.300	12/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/26/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



12/19/2024

Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/19/2024 Sampling Date:

Reported: 12/27/2024 Sampling Type: Soil

Project Name: REMUDA 4-24-30 CTB Sampling Condition: Cool & Intact
Project Number: 03C1558152 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.25359-103.88134

ma/ka

Sample ID: SW 06 (H247700-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/25/2024	ND	1.74	86.9	2.00	0.837	
Toluene*	<0.050	0.050	12/25/2024	ND	1.81	90.6	2.00	0.666	
Ethylbenzene*	<0.050	0.050	12/25/2024	ND	1.76	88.2	2.00	0.460	
Total Xylenes*	<0.150	0.150	12/25/2024	ND	5.15	85.9	6.00	0.392	
Total BTEX	<0.300	0.300	12/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/26/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/26/2024	ND	195	97.5	200	3.40	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	183	91.4	200	13.8	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/19/2024 Reported: 12/27/2024

Project Name: REMUDA 4-24-30 CTB

Project Number: 03C1558152

Project Location: XTO 32.25359-103.88134

mg/kg

Sampling Date: 12/19/2024

Sampling Type: Soil

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

Sample ID: SW 07 (H247700-03)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/24/2024	ND	1.64	82.2	2.00	9.84	
Toluene*	<0.050	0.050	12/24/2024	ND	1.71	85.7	2.00	10.0	
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	1.67	83.7	2.00	9.95	
Total Xylenes*	<0.150	0.150	12/24/2024	ND	4.91	81.8	6.00	9.91	
Total BTEX	<0.300	0.300	12/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 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	16.0	16.0	12/26/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/26/2024	ND	195	97.5	200	3.40	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	183	91.4	200	13.8	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keine



Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relindes or successors arising out of or related to the personal Relinquished By: Oxern Re	PLEASE NOTE: Lability and Damages. Cardinat's lability and analyses. All claims including those for negligence and any or analyses. All claims including those for negligence and any or analyses. An or event shall Cardinal be liable for incidental or or service.	3 SW07	1541100 SMOS		ron Lab I.D. Sample I.D.	on: Hedie	ame: Rymida 4		427-557-8895	Address:	Hodie (Company Name: Enschen	101 East Marianu, 10556, 1076 (575) 393-2476
Time: Sample Condition Corrected Tempo *C 4-8	Date: Received by:	PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable please. But claims including those for negligance and any other cause whatsoever shall be deemed walved unless made in witing and received by Cardinal within 30 days after completion of the applicable rankings. All claims including those for inegligance and any other cause whatsoever shall be deemed walved unless interruptions, loss of use, or loss of profits incrured by pleast, its subsidiaries. Verbal Result: Verbal Result:	C		(G)RAE # CON GROU WAST SOIL OIL SLUD OTHE ACID	B OR (C)OMP. ITAINERS INDWATER EWATER OGE ER: OBSEINER OB		2153-32,16381-163,88134 Phone #:	Owner: XIO	Addres	Zip:	Treent Company:	P.O. #:	
E: Sample Condition CHECKED BY: Turnaround Time: Rush Coccurred Cool Infact (Initials) Turnaround Time: Rush Coccurred Cool Infact (Initials) Turnaround Time: Rush Coccurred Coccurred Condition (Initials) Turnaround Time: Rush Coccurred Coccur	All Results are common REMARKS:	☐ Yes ☐ No	1.00/24 1.42		TIME B T	TEX PH Chloride	N. SAMPLING		State: NM Zip: 88220	5: 3104 02 (second		Company: XTO Energy		BILL TO ANA
Bacteria (only) Sample Condition Cool Infact Observed Temp. °C Yes Yes No Corrected Temp. °C bsnm.com		Add' Phone #:												ANALYSIS REQUES:

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 445236

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	445236
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2233351770
Incident Name	NAPP2233351770 REMUDA BASIN 4-24-30 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2126352243] PLU REMUDA BASIN 04-24-30 USA BATT

Location of Release Source	
Please answer all the questions in this group.	
Site Name	REMUDA BASIN 4-24-30 CTB
Date Release Discovered	11/20/2022
Surface Owner	Federal

Incident Details		
Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Corrosion Valve Produced Water Released: 10 BBL Recovered: 8 BBL Lost: 2 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 445236

QUESTIONS (continued)		
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	
QUESTIONS	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
Nature and Volume of Release (continued)		
Common and a state of the state	T	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.	
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	rafety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com	

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Phone: (505) 629-6116

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 3

Action 445236

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	445236
	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	nd 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)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

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 as	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 millig	rams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	470		
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	14540		
GRO+DRO (EPA SW-846 Method 8015M)	12770		
BTEX (EPA SW-846 Method 8021B or 8260B)	96.6		
Benzene (EPA SW-846 Method 8021B or 8260B)	4.7		
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 01/09/2023			
On what date will (or did) the final sampling or liner inspection occur	12/19/2024		
On what date will (or was) the remediation complete(d)	12/19/2024		
What is the estimated surface area (in square feet) that will be reclaimed	1993		
What is the estimated volume (in cubic yards) that will be reclaimed	140		
What is the estimated surface area (in square feet) that will be remediated	1993		
What is the estimated volume (in cubic yards) that will be remediated	140		
These estimated dates and measurements are recognized to be the best guess or calculation at the til			
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.			

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 445236

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	445236
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
Yes		
HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]		
Not answered.		

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Name: Robert Woodall
Title: Environmental Analyst
Email: robert.d.woodall@exxonmobil.com
Date: 03/25/2025

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

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 5

Action 445236

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	445236
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 445236

QUESTI	ONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 445236 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Sampling Event Information	
Last sampling notification (C-141N) recorded	410800
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/20/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	580
Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all re Requesting a remediation closure approval with this submission	
Have the lateral and vertical extents of contamination been fully delineated	Yes
	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	1993
What was the total volume (cubic yards) remediated	140
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	1993
What was the total volume (in cubic yards) reclaimed	140
Summarize any additional remediation activities not included by answers (above)	Additional soil sampling activities were conducted at the Site to address the November 20, 2022, produced water release and June 26, 2023 NMOCD denial. Laboratory analytical results from all confirmation samples, collected from the final excavation extent, indicated that all COC concentrations were in compliance with the Closure Criteria. Based on soil sample analytical results, no further remediation is required. The excavation was backfilled with material purchased locally and the surface recontoured to match pre-existing Site conditions. Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been deter-mined 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.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for releathe 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 ises 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

ocal laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed

Name: Robert Woodall Title: Environmental Analyst I hereby agree and sign off to the above statement Email: robert.d.woodall@exxonmobil.com Date: 03/25/2025

prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

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QUESTIONS, Page 7

Action 445236

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	445236
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	No	

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 445236

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	445236
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created I		Condition Date
rhamle	We have received your Remediation Closure Report for Incident #NAPP2233351770 REMUDA BASIN 4-24-30 CTB, thank you. This Remediation Closure Report is approved.	3/26/2025