

Location:	Remuda 500 CTB	
Spill Date:	11/30/2022	
Area 1		
Approximate Area =	7920.00	sq. ft.
Average Saturation (or depth) of spill =	0.75	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	6.64	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	6.64	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	4.00	bbls



January 7, 2025

New Mexico Oil Conservation Division

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

**Re: Closure Request Addendum
Remuda 500 CTB
Incident Numbers NAPP2234832761 and NAPP2306544797
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 (Addendum)* to document assessment, excavation and soil sampling activities at the Remuda 500 Central Tank Battery (CTB; Site). The purpose of the Site assessment, delineation, excavation and soil sampling activities was to address impacts to soil following two releases of produced water at the Site affecting similar areas. The first release occurred on November 30, 2022, and a *Closure Request* summarizing Site assessment, soil delineation and surface scraping activities was submitted for Incident Number NAPP2234832761 on February 23, 2023. The second release occurred on February 21, 2023, and a *Closure Request* detailing Site assessment, soil delineation and surface scraping activities was submitted for Incident Number NAPP2306544797 on May 18, 2023. The New Mexico Oil Conservation Division (NMOCD) denied both requests stating additional soil sampling was required. In response, impacted soil was excavated to the reclamation requirement and confirmation soil sampling was completed. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this *Addendum*, describing remediation activities that have occurred and requesting no further action for Incident Numbers NAPP2234832761 and NAPP2306544797.

RELEASE BACKGROUND

The Site is located in Unit O, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.27022°, -103.93660°) and is associated with oil and gas exploration and production operations on New Mexico State Trust Land, Lease number E058940010, managed by the New Mexico State Land Office (SLO; Figure 1).

On November 30, 2022, a leaking pump seal activated a high-containment alarm, resulting in the release of approximately 6.64 barrels (bbls) of produced water into the lined containment and onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site, and 4.00 bbls were recovered. XTO submitted a Notification of Release (NOR) and an Initial C-141 Application (C-141) to the NMOCD on December 14, 2022. The release was assigned Incident Number NAPP2234832761.

On February 21, 2023, a seal on a produced water transfer pump failed, resulting in the release of approximately 5.50 bbls of produced water into the lined containment and onto the surface of the well pad without any of the release encroaching into the pasture. A vacuum truck was directly dispatched to the Site and approximately 4.00 bbls of released fluids were recovered. XTO reported the release via Notification of Release (NOR) and an Initial C-141 Application (C-141) to the NMOCD on March 6, 2023. The release was assigned Incident Number NAPP2306544797.

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As documented in the *Closure Request* submitted for Incident Number NAPP2234832761, Site assessment activities were conducted to evaluate the lateral release extent by collecting eleven delineation soil samples (SS01 through SS11). Soil samples SS01 through SS06 were collected within the release extent and SS07 through SS11 were collected around the release extent at a depth of 0.5 feet below ground surface (bgs). To assess the vertical extent of the release, six potholes (PH01 through PH06) were advanced in the vicinity of SS01 through SS06, respectively. Discrete delineation soil samples were collected in each pothole at depths ranging from 1-foot to 3 feet bgs. A liner integrity inspection was conducted by Ensolum personnel and determined the liner to be in good working condition. Following the delineation activities, surface scraping was completed on the stained area within the release extent and impacted soil was properly disposed of at a New Mexico approved landfill disposal facility. The soil sample locations and liner containment area are depicted on Figure 2. Laboratory analytical results indicated contaminants of concern (COC) concentrations for all delineation soil samples were in compliance with the Closure Criteria so, on February 28, 2023, closure was requested for this release. On June 29, 2023, NMOCD denied the *Closure Request* for Incident Number NAPP2234832761 for the following reasons:

- *The Closure Report is Denied. The “step-out” samples on pad to verify the edge of the release should only be a maximum of 1-2 feet from the observed edge of the release. Stepping out away from the release area toward the edge of the pad may tell us whether or not the release left the active well pad, but it does not tell us where the actual edge of the release is located. When equipment is located in and around the release area, samples must come from the sidewalls of the release area excavation. The OCD needs to know if the release went in, around, or under equipment/tanks/pipelines. Not having sidewall samples from the actual excavation won't give us those sampling data points that we need. On future reports, “step-out” samples should only be taken a maximum of 1-2 feet of the observed edge of the release area. “Step-out” samples should never be conducted if equipment is in the vicinity of the release area. Please conduct sidewalls in the release area excavation.*

The second release (Incident Number NAPP2306544797) at the Site occurred on February 21, 2023, 83 days after the first release, so a second, separate Site assessment was performed to determine the impacts from the February 2023 release. Twelve delineation soil samples (SS01 through SS12) were collected within and around the release extent at a depth of 0.5 feet bgs. Soil samples SS01 through SS07 were collected within the release extent and soil samples SS08 through SS12 were collected around the release extent to assess the lateral extent of the release. Seven potholes (PH01 through PH07) were advanced in the vicinity of soil sample locations SS01 through SS07, respectively to assess the vertical extent of the release. Discrete delineation soil samples were collected from each pothole at the terminal depth of 2 feet bgs to further confirm the absence of impacted soil. The release extent and soil sample locations are depicted on Figure 3. A liner integrity inspection was conducted by Ensolum personnel that confirmed the liner was operating as designed. Surface scraping of waste-containing soil (those soil not meeting the strictest Closure Criteria but do meet the Site-specific Closure Criteria) was completed to address surficial staining present within and around the release extent area. The surface scraping area included soil in the vicinity of soil samples SS01 through SS07 and SS12. Laboratory analytical results indicated all COC concentrations for all delineation soil samples were compliant with the Closure Criteria so on May 19, 2023, prior to the review and response from NMOCD of the first release, closure was requested for this release. On October 10, 2023, NMOCD denied the *Closure Request* for Incident Number NAPP2306544797 for the following reasons:

- *The Closure Report is Denied. The “step-out” samples on pad to verify the edge of the release should only be a maximum of 1-2 feet from the observed edge of the release. Stepping out away from the release area to conduct horizontal delineation samples may tell us whether or not the release left the active well pad, but it does not tell us where the actual edge of the release is located. Please make sure that the edge of the release extent is accurately defined. The OCD*

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needs to know if the release went in, around, or under equipment/tanks/pipelines. Not having sidewall samples from the actual excavation won't give us those sampling data points that we need. "Step-out" samples should never be conducted if equipment is in the vicinity of the release area. Please collect confirmation samples, representing no more than 200 ft². The closure report includes an inadequate number of floor samples. Include pictures of excavation before backfilling.

CLOSURE CRITERIA

The *Closure Requests* for both releases detailed site characterization according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, (19.15.29) of the New Mexico Administrative Code (NMAC). The site characterization results were included in the previously submitted *Closure Requests* prepared for Incident Number NAPP2234832761 and Incident Number NAPP2306544797 that are included in Appendix A and Appendix B, respectively. The Site is in a medium potential karst designation area; however, the release and all of the remedial activities occurred prior to December 1, 2024, the effective date of the NMOCD published *Karst Potential Occurrence Zones Public Notice*. Based on the results of the site characterization, the following Closure Criteria applies:

- 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

NMSLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

Cultural Properties Protection

Since the release occurred on the well pad, the site is exempt from the Cultural Properties Protection Rule (CPP). As such, no additional cultural resource surveys were completed in connection with this release.

Biological Review

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- The Site is within range of the Lesser Prairie-Chicken habitat. From March 1 through June 15, no remediation activities will occur between the hours of 3 am to 9 am to protect any Lesser Prairie-Chickens within the area.
- A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no potential critical habitats at the Site. The release was contained on the pad surface, limiting any contact with potential habitats that may exist in the vicinity the Site.

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- No environmentally sensitive receptors were located near the Site, as determined by the Site Characterization.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type at the Site as Simona-Bippus complex, which is not classified as a sensitive soil. The release occurred on the caliche surface of the well pad limiting contact with native soil.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

In response to NMOCD's denials of the *Closure Requests* prepared for Incident Numbers NAPP2234832761 and NAPP2306544797, visibly stained areas as well as delineation soil sampling locations reporting levels above the reclamation requirement in the top four feet of soil were excavated between January 4 and January 8, 2024. Excavation activities were performed using a track-mounted backhoe and transport vehicles. To further direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The excavation was completed to a depth of 4 feet bgs close to the Point of Release (POR) grading to a depth of 1-foot bgs at the southern extent. The excavation area measured approximately 11,150 square feet. A total of approximately 791 cubic yards of impacted soil was removed during excavation activities. As requested in the *Closure Report* denial response for Incident Number NAPP2306544797, photographic documentation of the excavation activities is included in Appendix C.

Following removal of the waste-containing soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and floor of the excavation as requested by NMOCD in the denial responses. 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 FS57 were collected from the floor of the excavation at depths varying from 1-foot bgs to 4 feet bgs and composite soil samples SW01 through SW07 were collected from sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. The excavation extent and excavation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 4.

The excavation samples were field screened for VOCs and chloride following the same procedures as described above. 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 COC: 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.

The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. The excavation was backfilled in July 2024 with locally procured materials.

LABORATORY ANALYTICAL RESULTS

Following excavation activities, laboratory analytical results confirm that impacted soil from both releases was fully defined as requested by NMOCD in the denial responses. Furthermore, analytical results verify that impacted soil was removed to reclamation requirements in the top 4 feet of soil and remaining COC concentrations are in compliance with Closure Criteria below the top 4 feet. Laboratory analytical results from both incident numbers are summarized in Table 1, and laboratory analytical reports are included in Appendix D.

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RECLAMATION PLAN

Both releases remained on the well pad that is currently in operation for oil and gas production purposes. As such, the release areas are not expected to be reclaimed until the plugging and abandoning (P&Aing) of all production wells associated with the tank battery and decommissioning of all production equipment, pipelines, and tank battery, which will be removed, and the well pad is reclaimed. The Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the well pad per 19.2.100.67 NMAC.

Per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation, any soil within the top 4 feet of the disturbed area would be assessed to meet the strictest Closure Criteria. A review of delineation and excavation soil analytical results confirm that soil has been remediated to reclamation requirements within the top 4 feet of soil and to Closure Criteria below the top 4 feet of soil. All other requirements of 19.2.100.67 NMAC will be addressed prior to, during, and after the P&Aing of the production well.

CLOSURE REQUEST

Site assessment, delineation soil sampling, excavation, and excavation soil sampling activities were conducted at the Site to address the extent of impacted soil from the November 30, 2022, release of produced water (Incident Number NAPP2234832761) and the February 21, 2023, release of produced water (Incident Number NAPP2306544797). Liner inspections were performed following both releases, and both inspections reported the liner was in good working condition and operating as designed. Following soil delineation, approximately 791 cubic yards of soil was excavated from the Site. Excavation soil sampling confirmed that the in-situ soil is compliant with reclamation requirements in the top 4 feet and below the Closure Criteria at depths greater than 4 feet bgs.

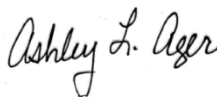
Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater and address all deficiencies as noted in the original *Closure Request* denial responses. As such, XTO respectfully requests closure for Incident Numbers NAPP2234832761 and NAPP2306544797.

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

Sincerely,
Ensolum, LLC



Katherine Kahn, P.G.
Senior Managing Geologist



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

cc: Kaylan Dirkx, XTO
Dale Woodall, XTO
SLO

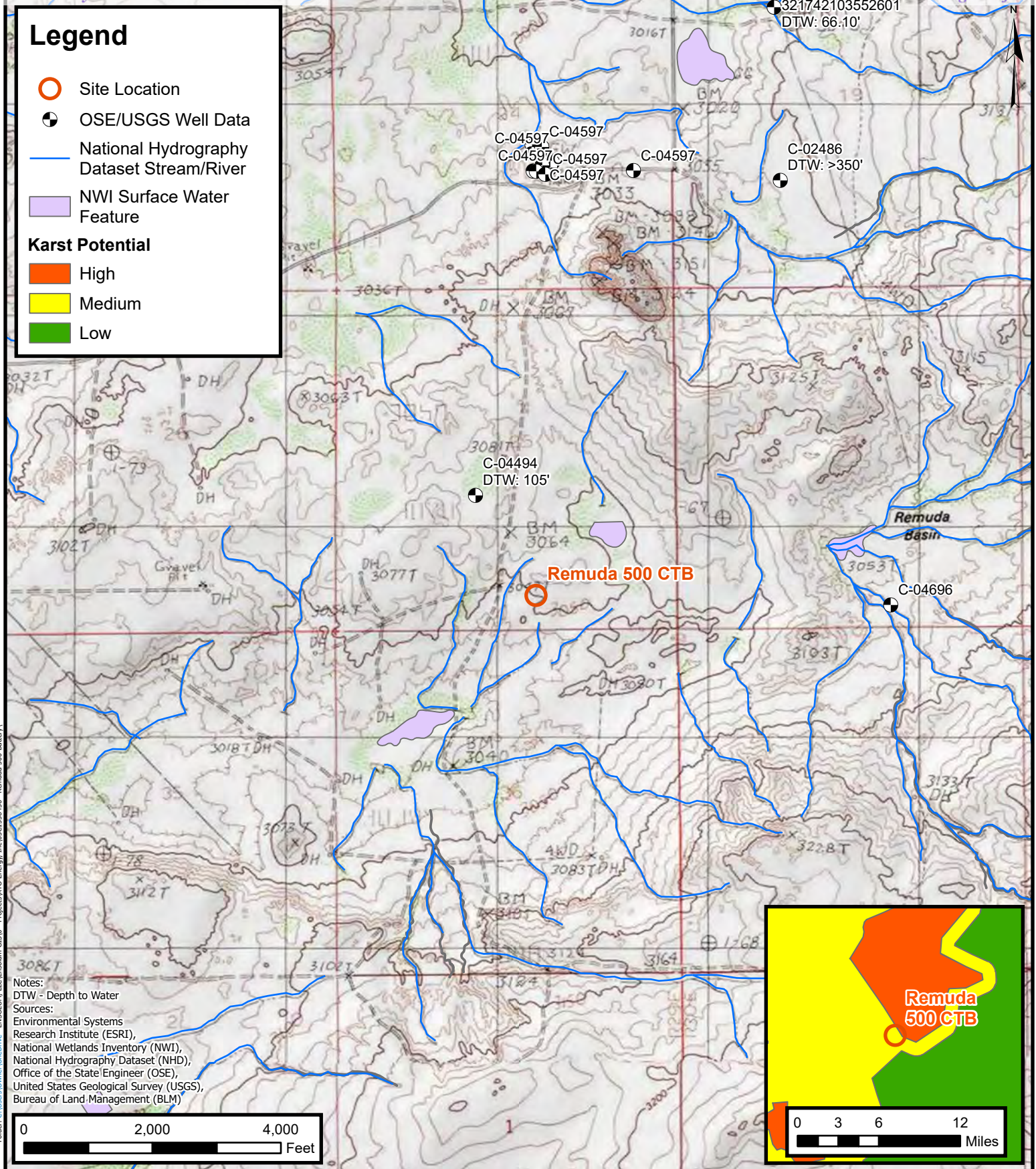
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Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations – Incident Number NAPP2234832761
Figure 3	Delineation Soil Sample Locations – Incident Number NAPP2306544797
Figure 4	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	February 23, 2023 Closure Request, Incident Number NAPP2234832761
Appendix B	May 18, 2023 Closure Request, Incident Number NAPP2306544797
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports and Chain-of-Custody Documentation



FIGURES



Site Receptor Map

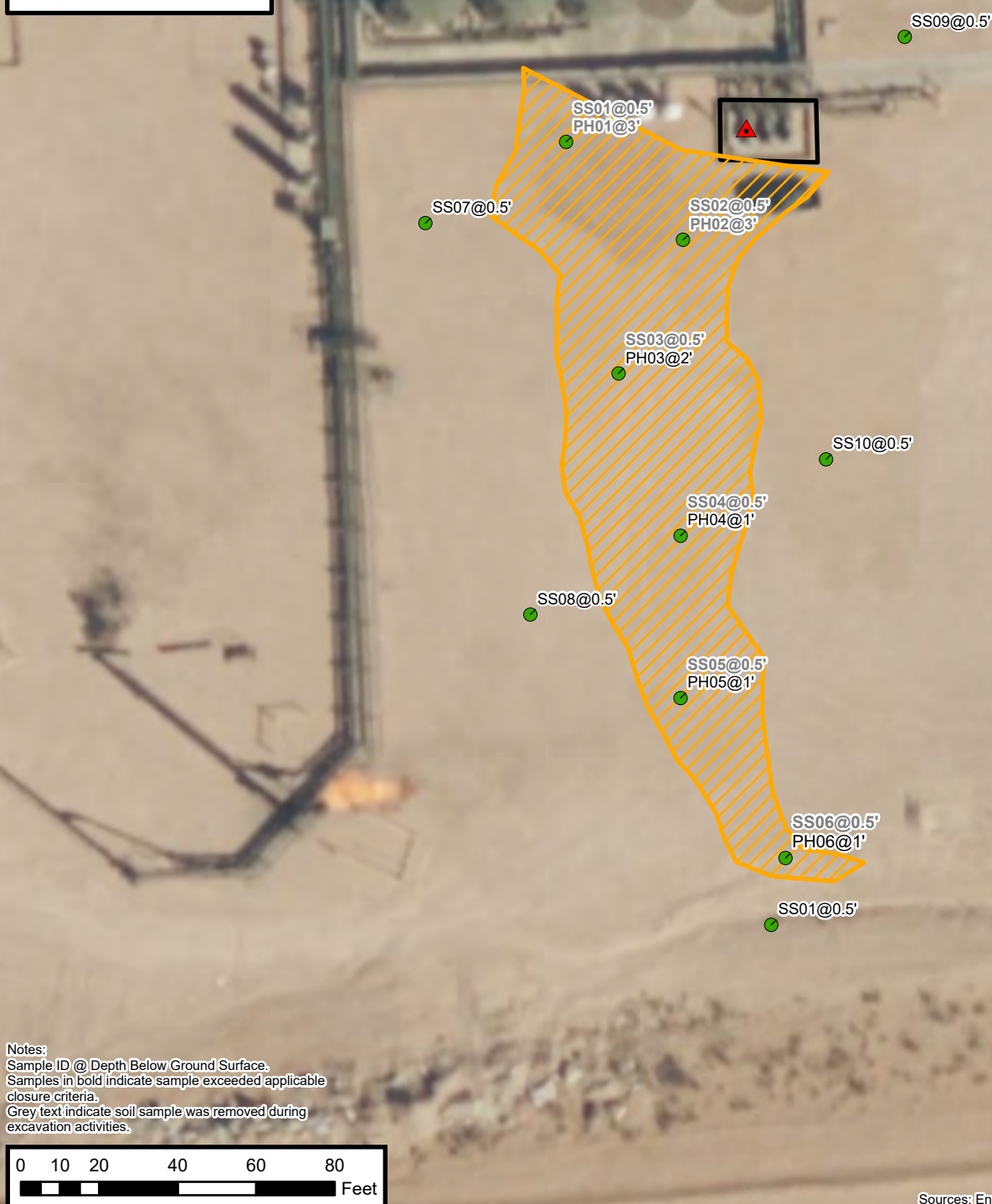
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Unit O, Sec 25, T23S, R29E
Eddy County, New Mexico

FIGURE

1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- Release Extent/Surface Scraping Area
- Liner Containment Area



Delineation Soil Sample Locations

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 Eddy County, New Mexico

FIGURE
2

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- ▭ Liner Containment Area
- ▨ Release Extent/Surface Scraping Area

SS10@0.5'

SS01@0.5'
PH01@2'

SS02@0.5'
PH02@2'

SS03@0.5'
PH03@2'

SS12@0.5'

SS13@0.5'

SS04@0.5'
PH04@2'

SS05@0.5'
PH05@2'

SS09@0.5'

SS06@0.5'
PH06@2'

SS08@0.5'

SS07@0.5'
PH07@2'

SS11 (West)@0.5'

Notes:
Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable closure criteria.
Grey text indicate soil sample was removed during excavation activities.

0 5 10 20 30 40
Feet

Sources: Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

XTO Energy, Inc
Remuda 500 CTB
Incident Number: NAPP2306544797
Unit O, Sec 25, T23S, R29E
Eddy County, New Mexico

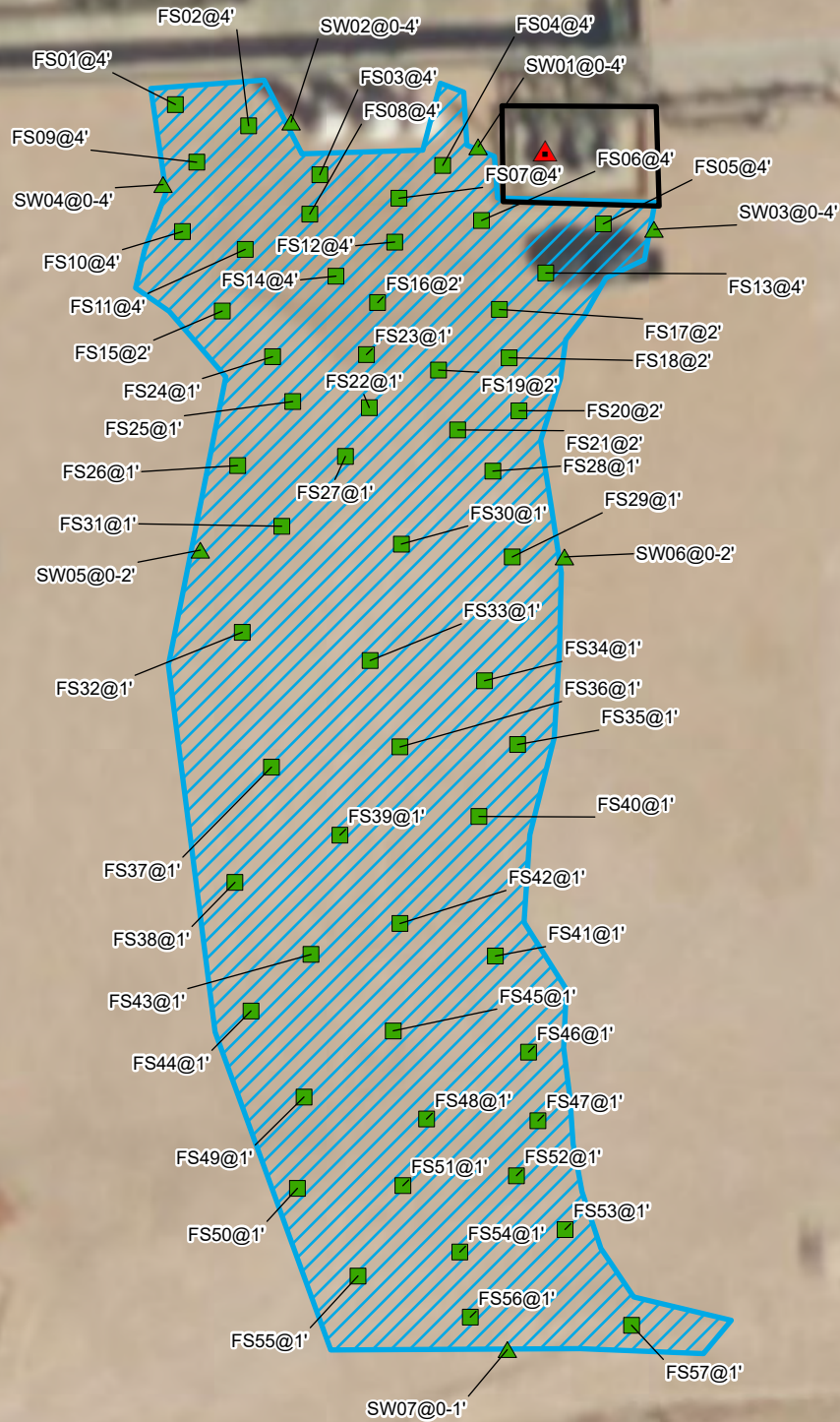
FIGURE

3

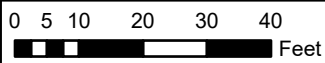


Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- ▭ Liner Containment Area
- ▨ Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

Excavation Soil Sample Locations

XTO Energy, Inc
Remuda 500 CTB
Incident Number: NAPP2234832761 and NAPP2306544797
Unit O, Sec 25, T23S, R29E
Eddy County, New Mexico

FIGURE**4**



TABLE



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
REMUDA 500 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
Delineation Soil Samples - NAPP2234832761										
SS01	01/09/2023	0.5	<0.00201	<0.00402	<49.9	77	<49.9	77	77	9,260
PH01	01/26/2023	3	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	358
SS02	01/09/2023	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	18,400
PH02	01/26/2023	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	166
SS03	01/09/2023	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	6,940
PH03	01/26/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	129
SS04	01/09/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	6,310
PH04	01/26/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	144
SS05	01/09/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	9,190
PH05	01/26/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	102
SS06	01/09/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	747
PH06	01/26/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	179
SS07	01/26/2023	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	19.0
SS08	01/26/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	25.3
SS09	01/26/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	87.1
SS10	01/26/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	9.89
SS11	01/26/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	5.59
Delineation Soil Samples - NAPP2306544797										
SS01	03/10/2023	0.5	<0.0402	<0.0803	<50.0	<50.0	<50.0	<50.0	<50.0	7,720
PH01	03/22/2023	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	4,020
SS02	03/10/2023	0.5	<0.0396	<0.0792	<50.0	<50.0	<50.0	<50.0	<50.0	13,900
PH02	03/22/2023	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	2,050
SS03	03/10/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,250
PH03	03/22/2023	2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	255
SS04	03/10/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	251	251	251	3,310
PH04	03/22/2023	2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	131
SS05	03/10/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,690
PH05	03/22/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	271
SS06	03/10/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	1,670
PH06	03/22/2023	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	244
SS07	03/10/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	1,450
PH07	03/22/2023	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	152



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
REMUDA 500 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)
NMOCB Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SS08	03/10/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	29.6
SS09	03/10/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	167
SS10	03/10/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	151
SS11	03/10/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	10.3
SS12	03/10/2023	0.5	<0.00202	<0.00404	<49.9	404	50.9	455	455	58.6
SS13	03/23/2023	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	381
Excavation Soil Samples - NAPP2234832761 and NAPP2306544797										
FS01	01/04/2024	4'	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	236
FS02	01/04/2024	4'	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	474
FS03	01/04/2024	4'	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	215
FS04	01/04/2024	4'	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,120
FS05	01/05/2024	4'	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	2,030
FS06	01/05/2024	4'	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	408
FS07	01/05/2024	4'	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	1,330
FS08	01/05/2024	4'	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	3,670
FS09	01/05/2024	4'	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	1,240
FS10	01/05/2024	4'	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2	<50.2	43.3
FS11	01/05/2024	4'	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	<50.5	151
FS12	01/05/2024	4'	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	357
FS13	01/05/2024	4'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	13.0
FS14	01/05/2024	4'	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	1,800
FS15	01/09/2024	2'	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	42.9
FS16	01/09/2024	2'	<0.00198	<0.00396	<50.2	<50.2	<50.2	<50.2	<50.2	208
FS17	01/09/2024	2'	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	101
FS18	01/09/2024	2'	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	30.3
FS19	01/09/2024	2'	<0.00202	<0.00403	<50.4	<50.4	<50.4	<50.4	<50.4	60.8
FS20	01/09/2024	2'	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	55.5
FS21	01/09/2024	2'	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	153
FS22	01/09/2024	1'	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	239
FS23	01/09/2024	1'	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	20.2
FS24	01/09/2024	1'	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	<50.3	66.3
FS25	01/09/2024	1'	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	76.3
FS26	01/09/2024	1'	<0.00202	<0.00404	<50.5	<50.5	<50.5	<50.5	<50.5	69.7
FS27	01/09/2024	1'	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	127



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
REMUDA 500 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
FS28	01/09/2024	1'	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	18.7
FS29	01/09/2024	1'	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	37.7
FS30	01/09/2024	1'	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	86.6
FS31	01/09/2024	1'	<0.00202	<0.00404	<50.3	<50.3	<50.3	<50.3	<50.3	29.0
FS32	01/09/2024	1'	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	9.08
FS33	01/09/2024	1'	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	<5.05
FS34	01/09/2024	1'	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<50.5	135
FS35	01/09/2024	1'	<0.00198	<0.00396	<49.6	<49.6	<49.6	<49.6	<49.6	122
FS36	01/09/2024	1'	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	118
FS37	01/09/2024	1'	<0.00202	<0.00403	<50.2	<50.2	<50.2	<50.2	<50.2	202
FS38	01/09/2024	1'	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	161
FS39	01/09/2024	1'	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	128
FS40	01/09/2024	1'	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	150
FS41	01/09/2024	1'	<0.00198	<0.00397	<50.3	<50.3	<50.3	<50.3	<50.3	200
FS42	01/09/2024	1'	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1	<50.1	75.7
FS43	01/09/2024	1'	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4	<50.4	125
FS44	01/09/2024	1'	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	94.0
FS45	01/09/2024	1'	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	152
FS46	01/09/2024	1'	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	129
FS47	01/09/2024	1'	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	73.5
FS48	01/09/2024	1'	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	<50.3	99.1
FS49	01/09/2024	1'	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	<50.1	117
FS50	01/09/2024	1'	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	<50.5	106
FS51	01/09/2024	1'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	109
FS52	01/09/2024	1'	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	75.3
FS53	01/09/2024	1'	<0.00200	<0.00399	<49.5	<49.5	<49.5	<49.5	<49.5	90.7
FS54	01/09/2024	1'	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	53.6
FS55	01/09/2024	1'	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	54.0
FS56	01/09/2024	1'	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	42.9
FS57	01/09/2024	1'	<0.00198	<0.00396	<50.2	<50.2	<50.2	<50.2	<50.2	41.4
SW01	01/05/2024	0 - 4'	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	368
SW02	01/05/2024	0 - 4'	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	98.0
SW03	01/05/2024	0 - 4'	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	406
SW04	01/09/2024	0 - 4'	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	51.6



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
REMUDA 500 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 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW05	01/09/2024	0 - 2'	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<50.5	49.7
SW06	01/09/2024	0 - 2'	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	74.8
SW07	01/09/2024	0 - 1'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	102

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 1 Closure Criteria

Grey text indicates soil sample removed during excavation activities

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code



APPENDIX A

February 23, 2023 *Closure Request*,
Incident Number NAPP2234832761



February 23, 2023

New Mexico Oil Conservation Division

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

**Re: Closure Request
Remuda 500 CTB
Incident Number NAPP2234832761
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 at the Remuda 500 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 release of produced water at the Site. Based on Site assessment activities and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation activities that have occurred and requesting no further action for Incident Number NAPP2234832761.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.27003°, -103.93669°) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (SLO).

On November 30, 2022, a leaking pump seal resulted in the release of approximately 6.64 barrels (bbls) of produced water into the lined containment and onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site, and 4.00 bbls were recovered. XTO submitted a Release Notification Form C-141 (Form C-141) on December 14, 2022. The release was assigned Incident Number NAPP2234832761.

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 recent soil boring drilled for determination of regional groundwater depth. On January 5, 2021, a soil boring permitted by New Mexico Office of the State Engineer (NMOSE file number C-04494) was completed approximately 0.33 miles northwest of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-04494 was drilled to a depth of 105 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

XTO Energy, Inc
Closure Request
Remuda 500 CTB

72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 318 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake, and is greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet from 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 (medium potential karst designation area). Potential site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following New Mexico Oil Conservation Division (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 ACTIVITIES

On January 9, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Six delineation soil samples (SS01 through SS06) were collected within the release extent at a depth of 0.5 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photo documentation was conducted during the Site visits and a photographic log is included in Appendix B.

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 (COC): 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 equilibrated to 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

DELINEATION AND SURFACE SCRAPING ACTIVITIES

On January 26, 2023, Ensolum personnel returned to the Site to complete additional delineation and inspect the liner of the containment. Six potholes (PH01 through PH06) were advanced by use of heavy equipment to assess the vertical extent of the release. The delineation potholes PH01 through PH06 were advanced in the vicinity of SS01 through SS06, respectively. Discrete delineation soil samples

XTO Energy, Inc
Closure Request
Remuda 500 CTB

were collected in each pothole from depths ranging from 1-foot to 3 feet bgs. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs and are included in Appendix C. In order to confirm the lateral definition of the release, delineation soil samples SS07 through SS11 were collected around the release extent. All delineation soil samples were field screening, handled, and analyzed as described above. Following the delineation activities, surface scraping by use of heavy equipment was completed on the stained area within the release extent. The soil was transported and properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico. The soil sample locations and liner containment area are depicted on Figure 2.

A 48-hour advance notice of liner inspection was provided via email to the NMOCD District II office. A liner integrity inspection was conducted by Ensolum personnel on January 13, 2022, to assess containment of the fluids that collected in the liner. The liner was determined to be in good working condition.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated COC concentrations for all delineation soil samples were in compliance with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil from the November 30, 2022 release of produced water. Following a liner inspection in which the liner was determined to be in good working condition, delineation activities were completed and laboratory analytical results indicated COC concentrations for all delineation soil samples were in compliance with the Site Closure Criteria. Additionally, the release is fully delineated to the strictest Table I Closure Criteria with the samples listed above and the outer barrier of the liner containment. Surface scraping was completed on the stained area within the release extent, which includes the areas of where elevated chloride concentrations existed in soil samples SS01 through SS06.

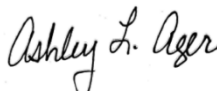
Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. Based on laboratory analytical results compliant with Closure Criteria, no further remediation appears to be required. As such, XTO respectfully requests closure for Incident Number NAPP2234832761.

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

Sincerely,
Ensolum, LLC



Meredith Roberts
Field Geologist



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

cc: Garrett Green, XTO
Shelby Pennington, XTO
SLO

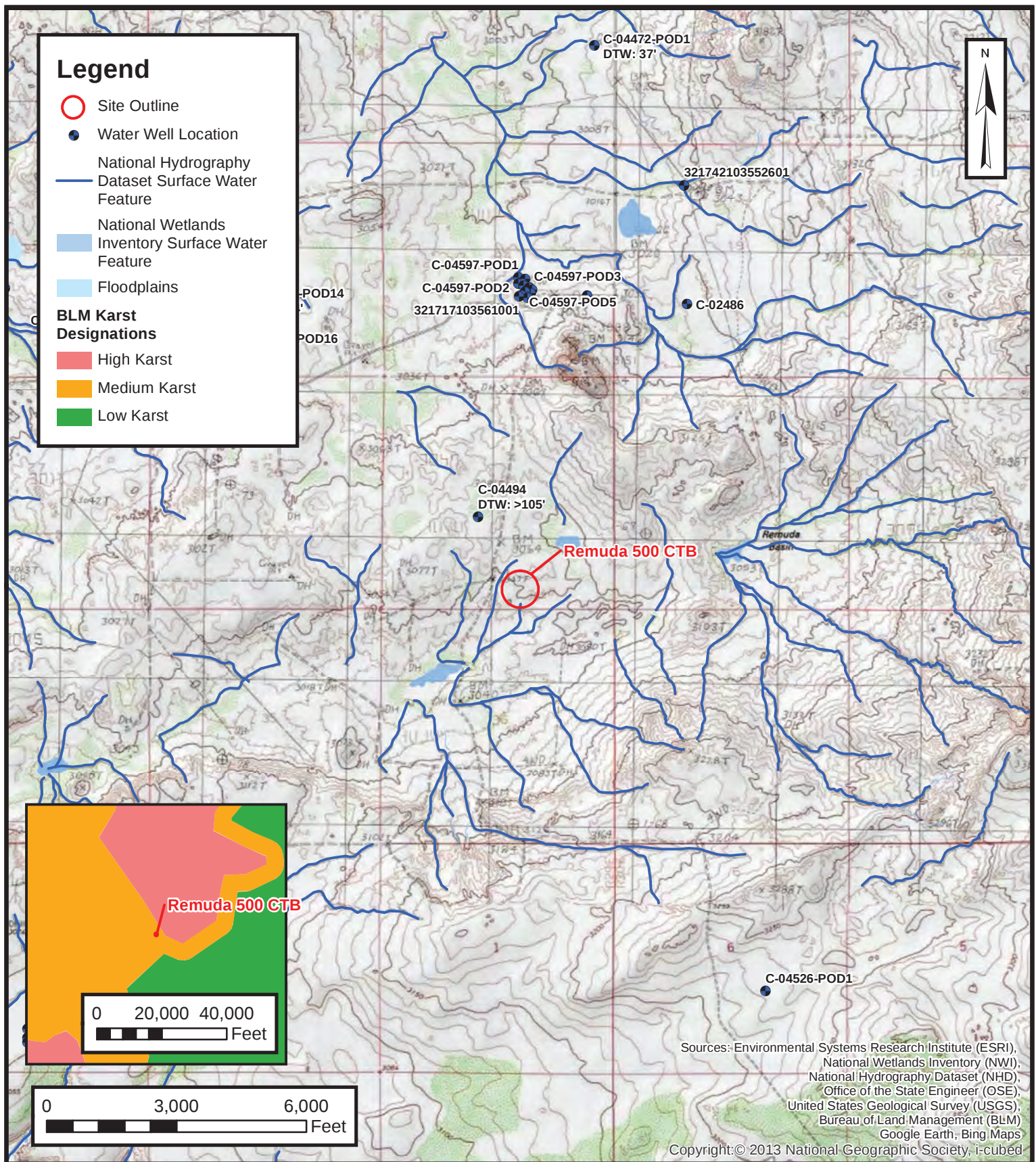
XTO Energy, Inc
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Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithology Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications



FIGURES



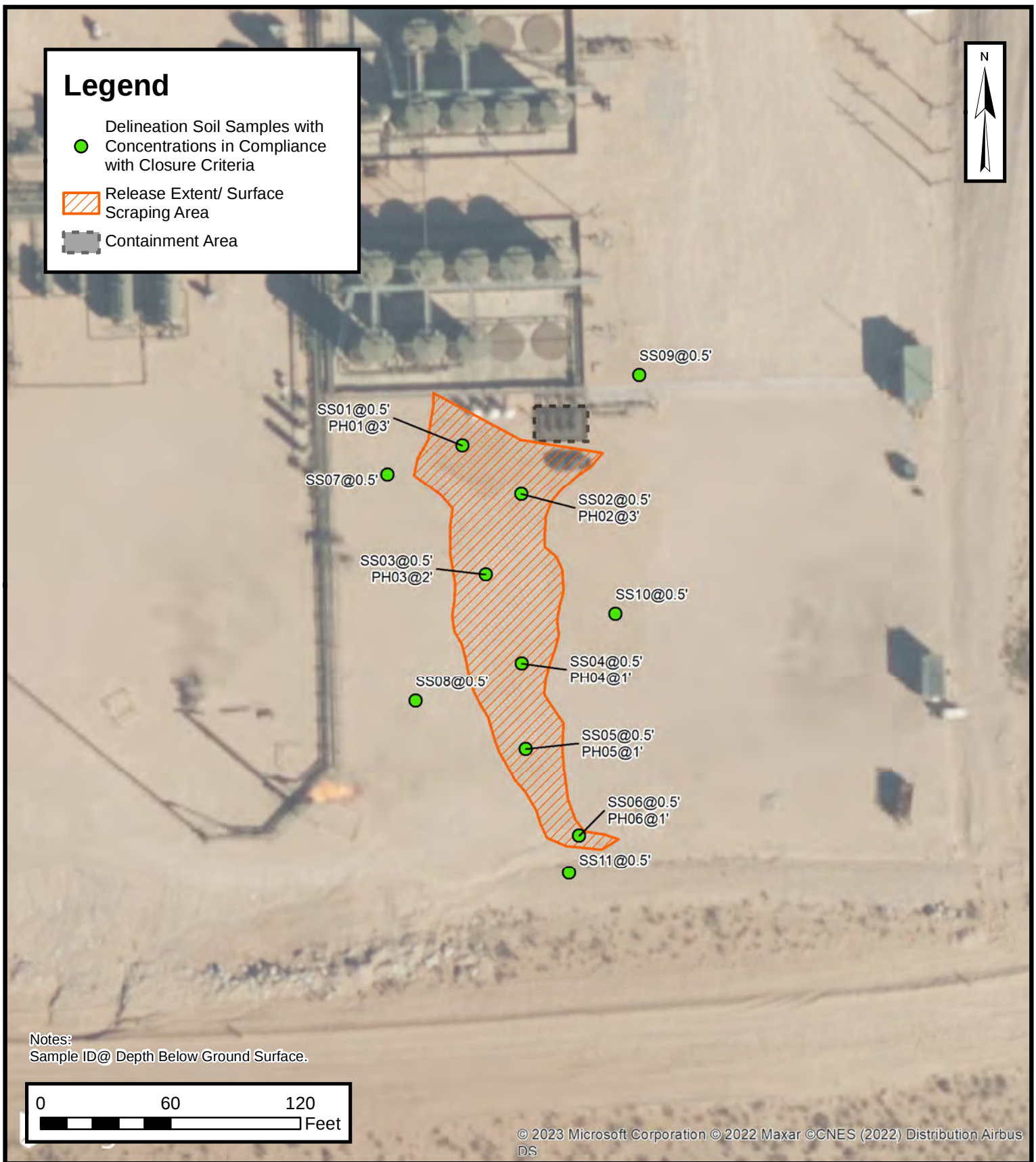
Site Receptor Map

XTO Energy, Inc
Remuda 500 CTB
NAPP2234832761
Unit O, Sec 25, T23S, R29E
Eddy County, New Mexico

FIGURE

1

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



Delineation Soil Sample Locations

XTO Energy, Inc
Remuda 500 CTB
NAPP2234832761
Unit O, Sec 25, T23S, R29E
Eddy County, New Mexico

FIGURE
2



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
REMUDA 500 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
Delineation Soil Samples										
SS01	01/09/2023	0.5	<0.00201	<0.00402	<49.9	77.0	<49.9	77.0	77.0	9,260
PH01	01/26/2023	3	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	358
SS02	01/09/2023	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	18,400
PH02	01/26/2023	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	166
SS03	01/09/2023	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	6,940
PH03	01/26/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	129
SS04	01/09/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	6,310
PH04	01/26/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	144
SS05	01/09/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	9,190
PH05	01/26/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	102
SS06	01/09/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	747
PH06	01/26/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	179
SS07	01/26/2023	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	19.0
SS08	01/26/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	25.3
SS09	01/26/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	87.1
SS10	01/26/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	9.89
SS11	01/26/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	5.59

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



APPENDIX A

Referenced Well Records

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01 (C-04494)		11/18/2020, 12/02/20, 01/05/2021				
		Site Name:		Remuda North 25 Observation Well				
		RP or Incident Number:						
		LTE Job Number:		TE012919039				
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening:		Hole Diameter:				
				6.25", 4.25"				
				Total Depth:				
				105'				
Comments:								
Lithology remarks only. No field screenings: Dry hole								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			1	SP-SC	
						2		0-1' : SAND, dry, brown, poorly graded, fine grain, Clay (10% clay), some roots, no stain, no odor
						3		
						4		1-4' : SAND, dry, reddish-light brown, poorly graded, very fine - fine grain, some rounded caliche pebbles, no stain, no odor
D			N			5	CCHE	
						6		4-9' : CALICHE, dry, light brown-tan, poorly consolidated, sub-rounded caliche pebbles and gravel, very silty, gradational
						7		
						8		9-14' : Abundant sub-round caliche gravel
						9		14-19' : Some sub-angular caliche gravel and pebbles
						10		19-24' : Abundant sub-angular caliche gravel and pebbles, moderately consolidated
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		
						21		
						22		
						23		
						24		
D			N			25	CL	

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name:		Date:	
								BH01 (C-04494)		11/18/2020, 12/02/20, 01/05/2021	
								Site Name:		Remuda North 25 Observation Well	
								RP or Incident Number:			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic	
Lat/Long:				Field Screening:				Hole Diameter:		Total Depth:	
								6.25", 4.25"		105'	
Comments: Lithology remarks only. No field screenings: Dry hole											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D			N			26	CL	24-39' : MUDSTONE, dry, reddish-brown, low plasticity, well consolidated, cohesive, trace caliche sub-angular pebbles, no tain, no odor, sharp transition 34-39' : Sub-angular calcium carbonate gravel with dissolution features (1-3mm), tan-light brown At 39' : Begin air rotary (4.25") 39-42' : DOLOMETIC LIMESTONE, tan-light brown, dry, well consolidated, with dissolution features (1-3mm), sharp, no stain, no odor, light to moderate reaction with HCl 42-45' : Some light gray dolomite with trace dissolution features (>1mm) At 48' : Stop due to air rotary refusal (11/18/20)			
						27					
28											
29											
30											
31											
32											
33											
34											
35											
D			N			36	DOL	48-56' : Advance borehole with new air rotary bit (12/02/20), DOLOMITE, white, well consolidated, dark gray-black banding, no stain , no odor			
						37					
						38					
						39					
						40					
						41					
						42					
						43					
						44					
						45					
						46		Refusal on 11/18/20 Restart borehole on 12/02/20			
						47					
						48					
						49					
						50					

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name:		Date:	
					BH01 (C-04494)		11/18/2020, 12/02/2020, 1/5/2021	
					Site Name:		Remuda North 25 Observation Well	
					RP or Incident Number:			
					LTE Job Number: TE012919039			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic	
Lat/Long:			Field Screening:		Hole Diameter:		Total Depth:	
					6.25", 4.25"		105'	
Comments: Lithologic log only, no field screenings								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			51	DOL	48-56' : Advanced borehole with new air rotary bit (12/02/20), DOLOMITE, white, well consolidated, dark gray- banding, no stain no odor At 56' : Restarted borehole on 1/5/2021 with sonic rig 56-65' : DOLOMITE, dry, light gray-gray, well consolidated, some calcium crystalline veins (<1mm), some dissolution features (2mm) with fine calcite crystalline, trace orange oxidation staining within dissolution features, no stain, no odor 62' : Brown-pale yellow coarse crystalline dolomitic limestone stringer (2cm) 63-65' : Abundant calcite crystalline veins (<1mm), pale green-gray, poorly consolidated 65-69' : MUDSTONE, moist, reddish brown, poorly consolidated, high plasticity, cohesive, abundant coarse crystalline gypsum, few pale green-gray mottling, no stain, no odor 69-81' : GYPSUM with Anhydrite, dry, greenish gray, some pale yellow, well consolidated, fine crystalline, 20% anhydrite, no stain, no odor
						52		
						53		
						54		
						55		
						56		
						57		
						58		
						59		
						60		
D			N			61	CH-S	
						62		
						63		
						64		
						65		
						66		
						67		
						68		
						69		
						70		
						71		
						72		
						73		
						74		
						75		
							GYP	

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:										
		BH01 (C-04494)		11/18/2020, 12/02/2020, 1/5/2021										
		Site Name:		Remuda North 25 Observation Well										
		RP or Incident Number:												
		LTE Job Number: TE012919039												
LITHOLOGIC / SOIL SAMPLING LOG				Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic									
Lat/Long:		Field Screening:		Hole Diameter:	Total Depth:									
				6.25", 4.25"	105'									
Comments: Lithologic log only, no field screenings														
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks						
D			N			76	GYP	69-81' : GYPSUM with Anhydrite, dry, greenish gray, some pale yellow, well consolidated, fine crystalline, 20% anhydrite, no stain, no odor						
						77								
						78								
						79								
						80								
												81	CH-S	81-98' : MUDSTONE, moist, dark reddish brown, moderately consolidated, high plasticity, cohesive, trace coarse crystalline gypsum inclusions, no stain, no odor 85-86.5' : greenish-gray well consolidated coarse crystalline gypsum/anhydrite stringer 90-98' : Some fine grain brown sand At 97' : dark gray-gray gypsum stringer (4cm) 98-99.5' : GYPSUM, dark gray-gray, some brown, dry, well consolidated, fine-coarse crystalline, no stain, no odor 99.5-105' : Sandy SILTSTONE, moist, brown, some gray-dark gray, poorly consolidated, 20% very fine grain sand, no stain, no odor
												82		
												83		
												84		
												85		
												86		
												87		
												88		
												89		
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												91		
												92		
												93		
94														
95														
96														
97														
98														
99														
100														
D			N				GYP							
D			N				ML-S							

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name:		Date:	
					BH01 (C-04494)		11/18/2020, 12/02/2020, 1/5/2021	
					Site Name:		Remuda North 25 Observation Well	
					RP or Incident Number:			
					LTE Job Number: TE012919039			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic	
Lat/Long:			Field Screening:		Hole Diameter:		Total Depth:	
					6.25", 4.25"		105'	
Comments: Lithologic log only, no field screenings								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			101	ML-S	99.5-105' : Sandy SILTSTONE, moist, brown, some gray-dark gray, poorly consolidated, 20% very fine grain sand, no stain, no odor
						102		
						103		
						104		
						105		
						106		TD @ 105' bgs (1/5/2021)
						107		
						108		
						109		
						110		
						111		
						112		
						113		
						114		
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						119		
						120		
						121		
						122		
						123		
						124		
						125		



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc
Remuda 500 CTB
NAPP2234832761



Photograph 1 Date: 01/09/2023
Description: Release extent area.
View: North



Photograph 2 Date: 01/13/2023
Description: Liner containment area.
View: Northeast



Photograph 3 Date: 01/13/2023
Description: Liner inspection activities.
View: East



Photograph 4 Date: 01/26/2023
Description: Surface scraping activities.
View: South



APPENDIX C

Lithologic Soil Sampling Logs

 ENSOLUM		Sample Name: PH01		Date: 1/26/2023				
		Site Name: Remuda 500 CTB						
		Incident Number: nAPP2234832761						
		Job Number: 03C1558151						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.27003 , -103.93669			Logged By: Connor Whitman		Method: Backhoe			
			Hole Diameter: N/A		Total Depth: 3' bgs			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and 40% correction factor added to field screening results.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	8,685	2.7	Y	SS01	0.5	0	CCHE	CALICHE, moist, tan-light brown, unconsolidated fill, light brown-brown staining, no odor.
Dry	2,402	0.0	N		1	1	SP	SAND, very fine, brown, with silt. No H/C stain or odor.
Dry	1,002	0.0	N		2	2		
Dry	240	0.0	N	PH01	3	3	SP	SAND, very fine, brown, with Caliche No H/C stain or odor.
						Total depth 3' bgs		

								Sample Name: PH02		Date: 1/26/2023	
								Site Name: Remuda 500 CTB			
								Incident Number: nAPP2234832761			
								Job Number: 03C1558151			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Connor Whitman		Method: Backhoe	
Coordinates: 32.27003 , -103.93669								Hole Diameter: N/A		Total Depth: 3' bgs	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and 40% correction factor added to field screening results.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	19,292	3.9	Y	SS02	0.5	0	CCHE	CALICHE, moist, tan-light brown, unconsolidated fill, light brown-brown staining, no odor.			
Dry	2,100	0.1	N			1	SP	SAND, Very fine, brown, with silt. No H/C stain or odor.			
Dry	1,700	0.0	N			2					
Dry	<168	0.0	N	PH02	3	3					
Total depth 3' bgs.											

 ENSOLUM		Sample Name: PH03		Date: 1/26/2023				
		Site Name: Remuda 500 CTB						
		Incident Number: nAPP2234832761						
		Job Number: 03C1558151						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.27003 , -103.93669				Logged By: Connor Whitman				
				Method: Backhoe				
				Hole Diameter: N/A				
				Total Depth: 2' bgs				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and 40% correction factor added to field screening results.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	3,372	2.9	Y	SS03	0.5	0	CCHE	CALICHE, moist, tan-light brown, unconsolidated fill, light brown-brown staining, no odor.
Dry	1,002	0.3	N			1	SP	SAND, very fine, brown, with silt and Caliche No H/C stain or odor.
Dry	<168	0.6	N	PH03	2	2	SP	SAND, very fine, brown, with silt No H/C stain or odor.
Total depth 2' bgs.								

 ENSOLUM		Sample Name: PH04		Date: 1/26/2023				
		Site Name: Remuda 500 CTB						
		Incident Number: nAPP2234832761						
		Job Number: 03C1558151						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.27003 , -103.93669			Logged By: Connor Whitman		Method: Backhoe			
			Hole Diameter: N/A		Total Depth: 1' bgs			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and 40% correction factor added to field screening results.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	8,013	2.2	Y	SS04	0.5	0	CCHE	CALICHE, moist, tan-light brown, unconsolidated fill, light brown-brown staining, no odor.
Dry	<168	0.4	N	PH04	1	1	SP	SAND, very fine, brown, with silt. No H/C stain or odor.
Total depth 1' bgs.								

 ENSOLUM		Sample Name: PH05		Date: 1/26/2023				
		Site Name: Remuda 500 CTB						
		Incident Number: nAPP2234832761						
		Job Number: 03C1558151						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.27003 , -103.93669			Logged By: Connor Whitman		Method: Backhoe			
			Hole Diameter: N/A		Total Depth: 1' bgs			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and 40% correction factor added to field screening results.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	6,820	1.7	Y	SS05	0.5	0	CCHE	CALICHE, moist, tan-light brown, unconsolidated fill, light brown-brown staining, no odor.
Dry	<168	0.3	N	PH05	1	1	SP	SAND, very fine, brown, with silt No H/C stain or odor.
Total depth 1' bgs.								

 ENSOLUM		Sample Name: PH06		Date: 1/26/2023				
		Site Name: Remuda 500 CTB						
		Incident Number: nAPP2234832761						
		Job Number: 03C1558151						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.27003 , -103.93669			Logged By: Connor Whitman		Method: Backhoe			
			Hole Diameter: N/A		Total Depth: 1' bgs			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and 40% correction factor added to field screening results.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	509	0.9	Y	SS06	0.5	0	CCHE	CALICHE, moist, tan-light brown, unconsolidated fill, light brown-brown staining, no odor.
Dry	<168	0.6	N	PH06	1	1	SP	SAND, very fine, brown, with silt No H/C stain or odor.
Total depth 1' bgs.								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 1/16/2023 6:18:45 PM

JOB DESCRIPTION

Remuda 500 CTB
SDG NUMBER 03C1558151

JOB NUMBER

890-3787-1

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
1/16/2023 6:18:45 PM

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

Client: Ensolum
Project/Site: Remuda 500 CTB

Laboratory Job ID: 890-3787-1
SDG: 03C1558151

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Definitions/Glossary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Job ID: 890-3787-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3787-1

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

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 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 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 880-43788 and analytical batch 880-43922 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
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Client Sample ID: SS01

Lab Sample ID: 890-3787-1

Date Collected: 01/09/23 11:40

Matrix: Solid

Date Received: 01/10/23 09:05

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/11/23 12:26	01/13/23 21:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/11/23 12:26	01/13/23 21:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/11/23 12:26	01/13/23 21:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/11/23 12:26	01/13/23 21:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/11/23 12:26	01/13/23 21:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/11/23 12:26	01/13/23 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/11/23 12:26	01/13/23 21:04	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/11/23 12:26	01/13/23 21:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/16/23 16:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.6		49.9	mg/Kg			01/13/23 12:42	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		01/12/23 11:42	01/12/23 22:59	1
Diesel Range Organics (Over C10-C28)	76.6		49.9	mg/Kg		01/12/23 11:42	01/12/23 22:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/12/23 11:42	01/12/23 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	01/12/23 11:42	01/12/23 22:59	1
o-Terphenyl	115		70 - 130	01/12/23 11:42	01/12/23 22:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9260	F1	50.2	mg/Kg			01/13/23 17:45	10

Client Sample ID: SS02

Lab Sample ID: 890-3787-2

Date Collected: 01/09/23 11:45

Matrix: Solid

Date Received: 01/10/23 09:05

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		01/11/23 12:26	01/13/23 21:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/11/23 12:26	01/13/23 21:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/11/23 12:26	01/13/23 21:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/11/23 12:26	01/13/23 21:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/11/23 12:26	01/13/23 21:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/11/23 12:26	01/13/23 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	01/11/23 12:26	01/13/23 21:31	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Client Sample ID: SS02

Lab Sample ID: 890-3787-2

Date Collected: 01/09/23 11:45

Matrix: Solid

Date Received: 01/10/23 09:05

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	01/11/23 12:26	01/13/23 21:31	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	mg/Kg			01/16/23 16:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/13/23 12:42	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	<49.8	U	49.8	mg/Kg		01/12/23 11:42	01/12/23 23:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/12/23 11:42	01/12/23 23:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/12/23 11:42	01/12/23 23:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			01/12/23 11:42	01/12/23 23:21	1
o-Terphenyl	127		70 - 130			01/12/23 11:42	01/12/23 23:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18400		99.4	mg/Kg			01/13/23 18:01	20

Client Sample ID: SS03

Lab Sample ID: 890-3787-3

Date Collected: 01/09/23 11:50

Matrix: Solid

Date Received: 01/10/23 09:05

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/11/23 12:26	01/13/23 23:17	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/11/23 12:26	01/13/23 23:17	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/11/23 12:26	01/13/23 23:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/11/23 12:26	01/13/23 23:17	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/11/23 12:26	01/13/23 23:17	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/11/23 12:26	01/13/23 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/11/23 12:26	01/13/23 23:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/11/23 12:26	01/13/23 23:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/16/23 16:58	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			01/13/23 12:42	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Client Sample ID: SS03

Lab Sample ID: 890-3787-3

Date Collected: 01/09/23 11:50

Matrix: Solid

Date Received: 01/10/23 09:05

Sample Depth: 0.5

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	<50.0	U	50.0	mg/Kg		01/12/23 11:42	01/12/23 23:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/12/23 11:42	01/12/23 23:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 11:42	01/12/23 23:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			01/12/23 11:42	01/12/23 23:42	1
o-Terphenyl	119		70 - 130			01/12/23 11:42	01/12/23 23:42	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6940		49.9	mg/Kg			01/13/23 18:06	10

Client Sample ID: SS04

Lab Sample ID: 890-3787-4

Date Collected: 01/09/23 11:55

Matrix: Solid

Date Received: 01/10/23 09:05

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/11/23 12:26	01/13/23 23:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/11/23 12:26	01/13/23 23:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/11/23 12:26	01/13/23 23:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/11/23 12:26	01/13/23 23:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/11/23 12:26	01/13/23 23:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/11/23 12:26	01/13/23 23:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			01/11/23 12:26	01/13/23 23:43	1
1,4-Difluorobenzene (Surr)	94		70 - 130			01/11/23 12:26	01/13/23 23:43	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			01/16/23 16:58	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			01/13/23 12:42	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	<50.0	U	50.0	mg/Kg		01/12/23 11:42	01/13/23 00:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/12/23 11:42	01/13/23 00:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 11:42	01/13/23 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			01/12/23 11:42	01/13/23 00:04	1
o-Terphenyl	121		70 - 130			01/12/23 11:42	01/13/23 00:04	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Client Sample ID: SS04

Lab Sample ID: 890-3787-4

Date Collected: 01/09/23 11:55

Matrix: Solid

Date Received: 01/10/23 09:05

Sample Depth: 0.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6310		50.5	mg/Kg			01/13/23 18:12	10

Client Sample ID: SS05

Lab Sample ID: 890-3787-5

Date Collected: 01/09/23 12:00

Matrix: Solid

Date Received: 01/10/23 09:05

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/11/23 12:26	01/14/23 00:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/11/23 12:26	01/14/23 00:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/11/23 12:26	01/14/23 00:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/11/23 12:26	01/14/23 00:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/11/23 12:26	01/14/23 00:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/11/23 12:26	01/14/23 00:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			01/11/23 12:26	01/14/23 00:10	1
1,4-Difluorobenzene (Surr)	96		70 - 130			01/11/23 12:26	01/14/23 00:10	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			01/16/23 16:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/13/23 12:42	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		01/12/23 11:42	01/13/23 00:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/12/23 11:42	01/13/23 00:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/12/23 11:42	01/13/23 00:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			01/12/23 11:42	01/13/23 00:26	1
o-Terphenyl	117		70 - 130			01/12/23 11:42	01/13/23 00:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9190		50.4	mg/Kg			01/13/23 18:17	10

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Client Sample ID: SS06

Lab Sample ID: 890-3787-6

Date Collected: 01/09/23 12:05

Matrix: Solid

Date Received: 01/10/23 09:05

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/11/23 12:26	01/14/23 00:37	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/11/23 12:26	01/14/23 00:37	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/11/23 12:26	01/14/23 00:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/11/23 12:26	01/14/23 00:37	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/11/23 12:26	01/14/23 00:37	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/11/23 12:26	01/14/23 00:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	01/11/23 12:26	01/14/23 00:37	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/11/23 12:26	01/14/23 00:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/16/23 16:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/13/23 12:42	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		01/12/23 11:42	01/13/23 00:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/12/23 11:42	01/13/23 00:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/12/23 11:42	01/13/23 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	01/12/23 11:42	01/13/23 00:48	1
o-Terphenyl	116		70 - 130	01/12/23 11:42	01/13/23 00:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	747		25.0	mg/Kg			01/13/23 18:34	5

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Surrogate Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-3783-A-1-A MS	Matrix Spike	97	104
890-3783-A-1-B MSD	Matrix Spike Duplicate	80	88
890-3787-1	SS01	108	96
890-3787-2	SS02	97	92
890-3787-3	SS03	110	94
890-3787-4	SS04	113	94
890-3787-5	SS05	118	96
890-3787-6	SS06	117	98
LCS 880-43732/1-A	Lab Control Sample	104	103
LCSD 880-43732/2-A	Lab Control Sample Dup	90	94
MB 880-43732/5-A	Method Blank	71	89
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 Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3787-1	SS01	101	115
890-3787-2	SS02	110	127
890-3787-3	SS03	104	119
890-3787-4	SS04	106	121
890-3787-5	SS05	102	117
890-3787-6	SS06	100	116
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+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43732/5-A

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43732

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/11/23 12:26	01/13/23 17:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/11/23 12:26	01/13/23 17:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/11/23 12:26	01/13/23 17:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/11/23 12:26	01/13/23 17:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/11/23 12:26	01/13/23 17:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/11/23 12:26	01/13/23 17:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	01/11/23 12:26	01/13/23 17:05	1
1,4-Difluorobenzene (Surr)	89		70 - 130	01/11/23 12:26	01/13/23 17:05	1

Lab Sample ID: LCS 880-43732/1-A

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1063		mg/Kg		106	70 - 130
Toluene	0.100	0.1068		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1090		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2280		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1083		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-43732/2-A

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43732

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08286		mg/Kg		83	70 - 130	25	35
Toluene	0.100	0.07825		mg/Kg		78	70 - 130	31	35
Ethylbenzene	0.100	0.08311		mg/Kg		83	70 - 130	27	35
m-Xylene & p-Xylene	0.200	0.1720		mg/Kg		86	70 - 130	28	35
o-Xylene	0.100	0.08557		mg/Kg		86	70 - 130	23	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-3783-A-1-A MS

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43732

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0998	0.09041		mg/Kg		91	70 - 130
Toluene	<0.00202	U	0.0998	0.08508		mg/Kg		85	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

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

Lab Sample ID: 890-3783-A-1-A MS

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43732

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.0998	0.08917		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1833		mg/Kg		92	70 - 130
o-Xylene	<0.00202	U	0.0998	0.08757		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-3783-A-1-B MSD

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43732

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08380		mg/Kg		83	70 - 130	8	35
Toluene	<0.00202	U	0.100	0.07632		mg/Kg		76	70 - 130	11	35
Ethylbenzene	<0.00202	U	0.100	0.08294		mg/Kg		83	70 - 130	7	35
m-Xylene & p-Xylene	<0.00403	U	0.201	0.1702		mg/Kg		85	70 - 130	7	35
o-Xylene	<0.00202	U	0.100	0.07939		mg/Kg		79	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		70 - 130
1,4-Difluorobenzene (Surr)	88		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

Analyte	MB Result	MB 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
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 11:42	01/12/23 19:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	949.4		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	934.9		mg/Kg		93	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

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

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

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43804

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-43804/3-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43804

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	914.9		mg/Kg		91	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1075		mg/Kg		108	70 - 130	14	20

	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

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	891.6		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	983.2		mg/Kg		99	70 - 130

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	997	1139	F2	mg/Kg		113	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1082		mg/Kg		109	70 - 130	10	20

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

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43788/1-A Matrix: Solid Analysis Batch: 43922										Client Sample ID: Method Blank Prep Type: Soluble		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
Chloride	<5.00	U	5.00	mg/Kg			01/13/23 17:28	1				

Lab Sample ID: LCS 880-43788/2-A Matrix: Solid Analysis Batch: 43922										Client Sample ID: Lab Control Sample Prep Type: Soluble		
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride			250	256.1		mg/Kg		102	90 - 110			

Lab Sample ID: LCSD 880-43788/3-A Matrix: Solid Analysis Batch: 43922										Client Sample ID: Lab Control Sample Dup Prep Type: Soluble		
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride			250	252.7		mg/Kg		101	90 - 110	1	20	

Lab Sample ID: 890-3787-1 MS Matrix: Solid Analysis Batch: 43922										Client Sample ID: SS01 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	9260	F1	2510	12420	F1	mg/Kg		126	90 - 110			

Lab Sample ID: 890-3787-1 MSD Matrix: Solid Analysis Batch: 43922										Client Sample ID: SS01 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	9260	F1	2510	12390	F1	mg/Kg		125	90 - 110	0	20	

QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

GC VOA

Prep Batch: 43732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3787-1	SS01	Total/NA	Solid	5035	
890-3787-2	SS02	Total/NA	Solid	5035	
890-3787-3	SS03	Total/NA	Solid	5035	
890-3787-4	SS04	Total/NA	Solid	5035	
890-3787-5	SS05	Total/NA	Solid	5035	
890-3787-6	SS06	Total/NA	Solid	5035	
MB 880-43732/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43732/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43732/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3783-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-3783-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3787-1	SS01	Total/NA	Solid	8021B	43732
890-3787-2	SS02	Total/NA	Solid	8021B	43732
890-3787-3	SS03	Total/NA	Solid	8021B	43732
890-3787-4	SS04	Total/NA	Solid	8021B	43732
890-3787-5	SS05	Total/NA	Solid	8021B	43732
890-3787-6	SS06	Total/NA	Solid	8021B	43732
MB 880-43732/5-A	Method Blank	Total/NA	Solid	8021B	43732
LCS 880-43732/1-A	Lab Control Sample	Total/NA	Solid	8021B	43732
LCSD 880-43732/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43732
890-3783-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	43732
890-3783-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43732

Analysis Batch: 44088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3787-1	SS01	Total/NA	Solid	Total BTEX	
890-3787-2	SS02	Total/NA	Solid	Total BTEX	
890-3787-3	SS03	Total/NA	Solid	Total BTEX	
890-3787-4	SS04	Total/NA	Solid	Total BTEX	
890-3787-5	SS05	Total/NA	Solid	Total BTEX	
890-3787-6	SS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 43781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3787-1	SS01	Total/NA	Solid	8015B NM	43804
890-3787-2	SS02	Total/NA	Solid	8015B NM	43804
890-3787-3	SS03	Total/NA	Solid	8015B NM	43804
890-3787-4	SS04	Total/NA	Solid	8015B NM	43804
890-3787-5	SS05	Total/NA	Solid	8015B NM	43804
890-3787-6	SS06	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

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QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

GC Semi VOA

Prep Batch: 43804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3787-1	SS01	Total/NA	Solid	8015NM Prep	
890-3787-2	SS02	Total/NA	Solid	8015NM Prep	
890-3787-3	SS03	Total/NA	Solid	8015NM Prep	
890-3787-4	SS04	Total/NA	Solid	8015NM Prep	
890-3787-5	SS05	Total/NA	Solid	8015NM Prep	
890-3787-6	SS06	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: 43884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3787-1	SS01	Total/NA	Solid	8015 NM	
890-3787-2	SS02	Total/NA	Solid	8015 NM	
890-3787-3	SS03	Total/NA	Solid	8015 NM	
890-3787-4	SS04	Total/NA	Solid	8015 NM	
890-3787-5	SS05	Total/NA	Solid	8015 NM	
890-3787-6	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3787-1	SS01	Soluble	Solid	DI Leach	
890-3787-2	SS02	Soluble	Solid	DI Leach	
890-3787-3	SS03	Soluble	Solid	DI Leach	
890-3787-4	SS04	Soluble	Solid	DI Leach	
890-3787-5	SS05	Soluble	Solid	DI Leach	
890-3787-6	SS06	Soluble	Solid	DI Leach	
MB 880-43788/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43788/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43788/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3787-1 MS	SS01	Soluble	Solid	DI Leach	
890-3787-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 43922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3787-1	SS01	Soluble	Solid	300.0	43788
890-3787-2	SS02	Soluble	Solid	300.0	43788
890-3787-3	SS03	Soluble	Solid	300.0	43788
890-3787-4	SS04	Soluble	Solid	300.0	43788
890-3787-5	SS05	Soluble	Solid	300.0	43788
890-3787-6	SS06	Soluble	Solid	300.0	43788
MB 880-43788/1-A	Method Blank	Soluble	Solid	300.0	43788
LCS 880-43788/2-A	Lab Control Sample	Soluble	Solid	300.0	43788
LCSD 880-43788/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43788
890-3787-1 MS	SS01	Soluble	Solid	300.0	43788
890-3787-1 MSD	SS01	Soluble	Solid	300.0	43788

Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Client Sample ID: SS01
Date Collected: 01/09/23 11:40
Date Received: 01/10/23 09:05

Lab Sample ID: 890-3787-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43732	01/11/23 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43878	01/13/23 21:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44088	01/16/23 16:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43884	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		1	1 uL	1 uL	43781	01/12/23 22:59	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43788	01/12/23 09:17	KS	EET MID
Soluble	Analysis	300.0		10			43922	01/13/23 17:45	CH	EET MID

Client Sample ID: SS02
Date Collected: 01/09/23 11:45
Date Received: 01/10/23 09:05

Lab Sample ID: 890-3787-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43732	01/11/23 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43878	01/13/23 21:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44088	01/16/23 16:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43884	01/13/23 12:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43804	01/12/23 11:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43781	01/12/23 23:21	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43788	01/12/23 09:17	KS	EET MID
Soluble	Analysis	300.0		20			43922	01/13/23 18:01	CH	EET MID

Client Sample ID: SS03
Date Collected: 01/09/23 11:50
Date Received: 01/10/23 09:05

Lab Sample ID: 890-3787-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	43732	01/11/23 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43878	01/13/23 23:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44088	01/16/23 16:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43884	01/13/23 12:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43804	01/12/23 11:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43781	01/12/23 23:42	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	43788	01/12/23 09:17	KS	EET MID
Soluble	Analysis	300.0		10			43922	01/13/23 18:06	CH	EET MID

Client Sample ID: SS04
Date Collected: 01/09/23 11:55
Date Received: 01/10/23 09:05

Lab Sample ID: 890-3787-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43732	01/11/23 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43878	01/13/23 23:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44088	01/16/23 16:58	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Client Sample ID: SS04

Lab Sample ID: 890-3787-4

Date Collected: 01/09/23 11:55

Matrix: Solid

Date Received: 01/10/23 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43884	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		1	1 uL	1 uL	43781	01/13/23 00:04	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	43788	01/12/23 09:17	KS	EET MID
Soluble	Analysis	300.0		10			43922	01/13/23 18:12	CH	EET MID

Client Sample ID: SS05

Lab Sample ID: 890-3787-5

Date Collected: 01/09/23 12:00

Matrix: Solid

Date Received: 01/10/23 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43732	01/11/23 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43878	01/14/23 00:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44088	01/16/23 16:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43884	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		1	1 uL	1 uL	43781	01/13/23 00:26	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	43788	01/12/23 09:17	KS	EET MID
Soluble	Analysis	300.0		10			43922	01/13/23 18:17	CH	EET MID

Client Sample ID: SS06

Lab Sample ID: 890-3787-6

Date Collected: 01/09/23 12:05

Matrix: Solid

Date Received: 01/10/23 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43732	01/11/23 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43878	01/14/23 00:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44088	01/16/23 16:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43884	01/13/23 12:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43804	01/12/23 11:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43781	01/13/23 00:48	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43788	01/12/23 09:17	KS	EET MID
Soluble	Analysis	300.0		5			43922	01/13/23 18:34	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

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 500 CTB

Job ID: 890-3787-1
SDG: 03C1558151

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3787-1	SS01	Solid	01/09/23 11:40	01/10/23 09:05	0.5
890-3787-2	SS02	Solid	01/09/23 11:45	01/10/23 09:05	0.5
890-3787-3	SS03	Solid	01/09/23 11:50	01/10/23 09:05	0.5
890-3787-4	SS04	Solid	01/09/23 11:55	01/10/23 09:05	0.5
890-3787-5	SS05	Solid	01/09/23 12:00	01/10/23 09:05	0.5
890-3787-6	SS06	Solid	01/09/23 12:05	01/10/23 09:05	0.5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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

Chain of Custody

Work Order No: _____

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Project Manager:	Ben Beill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parts Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	bbeill@ensolum.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: _____

Project Name:	Remuda 500 CTB	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST	Preservative Codes
Project Number:	03C1558151						None: NO Cool: Cool HCL: HCL H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Project Location:	32.27003, -103.93669	Due Date:					
Sampler's Name:	Mercedith Roberts	TAT starts the day received by the lab, if received by 4:30pm					
P.O. #:							
SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐		
Samples Received Intact:	Yes ☒ No ☐	Thermometer ID:	7111003				
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:	-0.8				
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:	0.8				
Total Containers:		Corrected Temperature:	0.8				
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters
SS01	S	1/9/23	1140	0.5'	G	1	BTEX Chlorides TPH
SS02			1145				
SS03			1150				
SS04			1155				
SS05			1200				
SS06			1205				
							Incident #: NAPP2234832761
							Cost Center: 1DB7601001



890-3787 Chain of Custody

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 Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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 negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Mercedith Roberts</i>	<i>Claudia</i>	1-10-22 905			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3787-1

SDG Number: 03C1558151

Login Number: 3787

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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: 890-3787-1

SDG Number: 03C1558151

Login Number: 3787

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

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

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 2/10/2023 11:59:59 AM

JOB DESCRIPTION

Remuda 500 CTB

SDG NUMBER 03C1558151

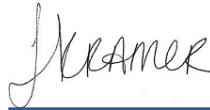
JOB NUMBER

890-3970-1

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
2/10/2023 11:59:59 AM

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

Client: Ensolum
Project/Site: Remuda 500 CTB

Laboratory Job ID: 890-3970-1
SDG: 03C1558151

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Definitions/Glossary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Job ID: 890-3970-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3970-1

Receipt

The samples were received on 1/27/2023 9:20 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 3.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-3970-1), PH02 (890-3970-2), PH03 (890-3970-3), PH04 (890-3970-4), PH05 (890-3970-5) and PH06 (890-3970-6).

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 surrogate recovery for the blank associated with preparation batch 880-45703 and analytical batch 880-45833 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3967-A-1-D MS) and (890-3967-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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-45098 and analytical batch 880-45287 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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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Client Sample ID: PH01

Lab Sample ID: 890-3970-1

Date Collected: 01/26/23 12:10

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 3'

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		02/06/23 14:24	02/07/23 14:38	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/06/23 14:24	02/07/23 14:38	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/06/23 14:24	02/07/23 14:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		02/06/23 14:24	02/07/23 14:38	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/06/23 14:24	02/07/23 14:38	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/06/23 14:24	02/07/23 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	02/06/23 14:24	02/07/23 14:38	1
1,4-Difluorobenzene (Surr)	108		70 - 130	02/06/23 14:24	02/07/23 14:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/07/23 16:59	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			02/10/23 10:51	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	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/09/23 22:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/09/23 22:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/09/23 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	02/07/23 13:15	02/09/23 22:31	1
o-Terphenyl	121		70 - 130	02/07/23 13:15	02/09/23 22:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	358		5.00	mg/Kg			02/03/23 07:17	1

Client Sample ID: PH02

Lab Sample ID: 890-3970-2

Date Collected: 01/26/23 10:45

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 14:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 14:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 14:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/06/23 14:24	02/07/23 14:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 14:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/06/23 14:24	02/07/23 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	02/06/23 14:24	02/07/23 14:59	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Client Sample ID: PH02

Lab Sample ID: 890-3970-2

Date Collected: 01/26/23 10:45

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	110		70 - 130	02/06/23 14:24	02/07/23 14:59	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			02/07/23 16:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/10/23 10:51	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		02/07/23 13:15	02/09/23 22:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/09/23 22:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/09/23 22:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			02/07/23 13:15	02/09/23 22:52	1
o-Terphenyl	111		70 - 130			02/07/23 13:15	02/09/23 22:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		5.02	mg/Kg			02/03/23 07:24	1

Client Sample ID: PH03

Lab Sample ID: 890-3970-3

Date Collected: 01/26/23 12:45

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 15:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 15:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 15:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/06/23 14:24	02/07/23 15:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 15:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/06/23 14:24	02/07/23 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	02/06/23 14:24	02/07/23 15:19	1
1,4-Difluorobenzene (Surr)	112		70 - 130	02/06/23 14:24	02/07/23 15:19	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			02/07/23 16:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/10/23 10:51	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Client Sample ID: PH03

Lab Sample ID: 890-3970-3

Date Collected: 01/26/23 12:45

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 2'

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		02/07/23 13:15	02/09/23 23:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/09/23 23:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/09/23 23:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			02/07/23 13:15	02/09/23 23:14	1
o-Terphenyl	102		70 - 130			02/07/23 13:15	02/09/23 23:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		5.01	mg/Kg			02/03/23 07:30	1

Client Sample ID: PH04

Lab Sample ID: 890-3970-4

Date Collected: 01/26/23 12:55

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 15:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 15:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 15:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/06/23 14:24	02/07/23 15:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 15:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/06/23 14:24	02/07/23 15:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			02/06/23 14:24	02/07/23 15:40	1
1,4-Difluorobenzene (Surr)	110		70 - 130			02/06/23 14:24	02/07/23 15:40	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			02/07/23 16:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/10/23 10:51	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		02/07/23 13:15	02/09/23 23:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/09/23 23:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/09/23 23:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			02/07/23 13:15	02/09/23 23:36	1
o-Terphenyl	113		70 - 130			02/07/23 13:15	02/09/23 23:36	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Client Sample ID: PH04

Lab Sample ID: 890-3970-4

Date Collected: 01/26/23 12:55

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		5.00	mg/Kg			02/03/23 07:36	1

Client Sample ID: PH05

Lab Sample ID: 890-3970-5

Date Collected: 01/26/23 12:25

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 1'

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		02/06/23 14:24	02/07/23 16:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 16:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 16:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/06/23 14:24	02/07/23 16:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 16:00	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/06/23 14:24	02/07/23 16:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			02/06/23 14:24	02/07/23 16:00	1
1,4-Difluorobenzene (Surr)	112		70 - 130			02/06/23 14:24	02/07/23 16:00	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			02/07/23 16:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/10/23 10:51	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		02/07/23 13:15	02/09/23 23:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/09/23 23:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/09/23 23:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			02/07/23 13:15	02/09/23 23:58	1
o-Terphenyl	113		70 - 130			02/07/23 13:15	02/09/23 23:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102	F1	5.00	mg/Kg			02/03/23 07:42	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Client Sample ID: PH06

Lab Sample ID: 890-3970-6

Date Collected: 01/26/23 13:10

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/06/23 14:24	02/07/23 16:21	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/06/23 14:24	02/07/23 16:21	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/06/23 14:24	02/07/23 16:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/06/23 14:24	02/07/23 16:21	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/06/23 14:24	02/07/23 16:21	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/06/23 14:24	02/07/23 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	02/06/23 14:24	02/07/23 16:21	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/06/23 14:24	02/07/23 16:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/07/23 16:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/10/23 10:51	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		02/07/23 13:15	02/10/23 00:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/10/23 00:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/10/23 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	02/07/23 13:15	02/10/23 00:20	1
o-Terphenyl	106		70 - 130	02/07/23 13:15	02/10/23 00:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		5.02	mg/Kg			02/03/23 08:00	1

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Surrogate Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-3970-1	PH01	106	108
890-3970-1 MS	PH01	110	109
890-3970-1 MSD	PH01	110	109
890-3970-2	PH02	114	110
890-3970-3	PH03	117	112
890-3970-4	PH04	120	110
890-3970-5	PH05	113	112
890-3970-6	PH06	115	109
LCS 880-45609/1-A	Lab Control Sample	98	117
LCSD 880-45609/2-A	Lab Control Sample Dup	106	112
MB 880-45609/5-A	Method Blank	104	107
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 Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3967-A-1-D MS	Matrix Spike	15 S1-	10 S1-
890-3967-A-1-E MSD	Matrix Spike Duplicate	17 S1-	11 S1-
890-3970-1	PH01	105	121
890-3970-2	PH02	98	111
890-3970-3	PH03	90	102
890-3970-4	PH04	97	113
890-3970-5	PH05	98	113
890-3970-6	PH06	95	106
LCS 880-45703/2-A	Lab Control Sample	102	114
LCSD 880-45703/3-A	Lab Control Sample Dup	92	105
MB 880-45703/1-A	Method Blank	126	146 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45609/5-A

Matrix: Solid

Analysis Batch: 45649

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45609

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 14:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 14:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 14:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/06/23 14:24	02/07/23 14:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 14:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/06/23 14:24	02/07/23 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/06/23 14:24	02/07/23 14:10	1
1,4-Difluorobenzene (Surr)	107		70 - 130	02/06/23 14:24	02/07/23 14:10	1

Lab Sample ID: LCS 880-45609/1-A

Matrix: Solid

Analysis Batch: 45649

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1061		mg/Kg		106	70 - 130
Toluene	0.100	0.09672		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09549		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1984		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09429		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-45609/2-A

Matrix: Solid

Analysis Batch: 45649

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45609

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1055		mg/Kg		105	70 - 130	1	35
Toluene	0.100	0.1010		mg/Kg		101	70 - 130	4	35
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2116		mg/Kg		106	70 - 130	6	35
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-3970-1 MS

Matrix: Solid

Analysis Batch: 45649

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 45609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.1045		mg/Kg		103	70 - 130
Toluene	<0.00202	U	0.101	0.1037		mg/Kg		103	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

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

Lab Sample ID: 890-3970-1 MS

Matrix: Solid

Analysis Batch: 45649

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 45609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.101	0.1043		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.202	0.2205		mg/Kg		109	70 - 130
o-Xylene	<0.00202	U	0.101	0.1041		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-3970-1 MSD

Matrix: Solid

Analysis Batch: 45649

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 45609

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.09658		mg/Kg		98	70 - 130	8	35
Toluene	<0.00202	U	0.0990	0.09874		mg/Kg		100	70 - 130	5	35
Ethylbenzene	<0.00202	U	0.0990	0.09962		mg/Kg		101	70 - 130	5	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.2114		mg/Kg		107	70 - 130	4	35
o-Xylene	<0.00202	U	0.0990	0.1006		mg/Kg		101	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-45703/1-A

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45703

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/09/23 20:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/09/23 20:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/09/23 20:17	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	02/07/23 13:15	02/09/23 20:17	1
o-Terphenyl	146	S1+	70 - 130	02/07/23 13:15	02/09/23 20:17	1

Lab Sample ID: LCS 880-45703/2-A

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	810.1		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	914.1		mg/Kg		91	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

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

Lab Sample ID: LCS 880-45703/2-A

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45703

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-45703/3-A

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	825.3		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	880.0		mg/Kg		88	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-3967-A-1-D MS

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45703

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	900.3		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	962.8		mg/Kg		95	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	15	S1-	70 - 130
o-Terphenyl	10	S1-	70 - 130

Lab Sample ID: 890-3967-A-1-E MSD

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45703

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1066		mg/Kg		107	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1085		mg/Kg		107	70 - 130	12	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	17	S1-	70 - 130
o-Terphenyl	11	S1-	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45098/1-A

Matrix: Solid

Analysis Batch: 45287

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/03/23 05:57	1

Lab Sample ID: LCS 880-45098/2-A

Matrix: Solid

Analysis Batch: 45287

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	269.4		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-45098/3-A

Matrix: Solid

Analysis Batch: 45287

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	270.0		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-3970-5 MS

Matrix: Solid

Analysis Batch: 45287

Client Sample ID: PH05

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	102	F1	250	382.4	F1	mg/Kg		112	90 - 110

Lab Sample ID: 890-3970-5 MSD

Matrix: Solid

Analysis Batch: 45287

Client Sample ID: PH05

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	102	F1	250	382.4	F1	mg/Kg		112	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

GC VOA

Prep Batch: 45609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3970-1	PH01	Total/NA	Solid	5035	
890-3970-2	PH02	Total/NA	Solid	5035	
890-3970-3	PH03	Total/NA	Solid	5035	
890-3970-4	PH04	Total/NA	Solid	5035	
890-3970-5	PH05	Total/NA	Solid	5035	
890-3970-6	PH06	Total/NA	Solid	5035	
MB 880-45609/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45609/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45609/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3970-1 MS	PH01	Total/NA	Solid	5035	
890-3970-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 45649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3970-1	PH01	Total/NA	Solid	8021B	45609
890-3970-2	PH02	Total/NA	Solid	8021B	45609
890-3970-3	PH03	Total/NA	Solid	8021B	45609
890-3970-4	PH04	Total/NA	Solid	8021B	45609
890-3970-5	PH05	Total/NA	Solid	8021B	45609
890-3970-6	PH06	Total/NA	Solid	8021B	45609
MB 880-45609/5-A	Method Blank	Total/NA	Solid	8021B	45609
LCS 880-45609/1-A	Lab Control Sample	Total/NA	Solid	8021B	45609
LCSD 880-45609/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45609
890-3970-1 MS	PH01	Total/NA	Solid	8021B	45609
890-3970-1 MSD	PH01	Total/NA	Solid	8021B	45609

Analysis Batch: 45727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3970-1	PH01	Total/NA	Solid	Total BTEX	
890-3970-2	PH02	Total/NA	Solid	Total BTEX	
890-3970-3	PH03	Total/NA	Solid	Total BTEX	
890-3970-4	PH04	Total/NA	Solid	Total BTEX	
890-3970-5	PH05	Total/NA	Solid	Total BTEX	
890-3970-6	PH06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3970-1	PH01	Total/NA	Solid	8015NM Prep	
890-3970-2	PH02	Total/NA	Solid	8015NM Prep	
890-3970-3	PH03	Total/NA	Solid	8015NM Prep	
890-3970-4	PH04	Total/NA	Solid	8015NM Prep	
890-3970-5	PH05	Total/NA	Solid	8015NM Prep	
890-3970-6	PH06	Total/NA	Solid	8015NM Prep	
MB 880-45703/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45703/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3967-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3967-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

GC Semi VOA

Analysis Batch: 45833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3970-1	PH01	Total/NA	Solid	8015B NM	45703
890-3970-2	PH02	Total/NA	Solid	8015B NM	45703
890-3970-3	PH03	Total/NA	Solid	8015B NM	45703
890-3970-4	PH04	Total/NA	Solid	8015B NM	45703
890-3970-5	PH05	Total/NA	Solid	8015B NM	45703
890-3970-6	PH06	Total/NA	Solid	8015B NM	45703
MB 880-45703/1-A	Method Blank	Total/NA	Solid	8015B NM	45703
LCS 880-45703/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45703
LCSD 880-45703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45703
890-3967-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	45703
890-3967-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45703

Analysis Batch: 45978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3970-1	PH01	Total/NA	Solid	8015 NM	
890-3970-2	PH02	Total/NA	Solid	8015 NM	
890-3970-3	PH03	Total/NA	Solid	8015 NM	
890-3970-4	PH04	Total/NA	Solid	8015 NM	
890-3970-5	PH05	Total/NA	Solid	8015 NM	
890-3970-6	PH06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 45098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3970-1	PH01	Soluble	Solid	DI Leach	
890-3970-2	PH02	Soluble	Solid	DI Leach	
890-3970-3	PH03	Soluble	Solid	DI Leach	
890-3970-4	PH04	Soluble	Solid	DI Leach	
890-3970-5	PH05	Soluble	Solid	DI Leach	
890-3970-6	PH06	Soluble	Solid	DI Leach	
MB 880-45098/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45098/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45098/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3970-5 MS	PH05	Soluble	Solid	DI Leach	
890-3970-5 MSD	PH05	Soluble	Solid	DI Leach	

Analysis Batch: 45287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3970-1	PH01	Soluble	Solid	300.0	45098
890-3970-2	PH02	Soluble	Solid	300.0	45098
890-3970-3	PH03	Soluble	Solid	300.0	45098
890-3970-4	PH04	Soluble	Solid	300.0	45098
890-3970-5	PH05	Soluble	Solid	300.0	45098
890-3970-6	PH06	Soluble	Solid	300.0	45098
MB 880-45098/1-A	Method Blank	Soluble	Solid	300.0	45098
LCS 880-45098/2-A	Lab Control Sample	Soluble	Solid	300.0	45098
LCSD 880-45098/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45098
890-3970-5 MS	PH05	Soluble	Solid	300.0	45098
890-3970-5 MSD	PH05	Soluble	Solid	300.0	45098

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Client Sample ID: PH01

Lab Sample ID: 890-3970-1

Date Collected: 01/26/23 12:10

Matrix: Solid

Date Received: 01/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	45609	02/06/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45649	02/07/23 14:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45727	02/07/23 16:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			45978	02/10/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45703	02/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45833	02/09/23 22:31	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45098	01/30/23 16:20	KS	EET MID
Soluble	Analysis	300.0		1			45287	02/03/23 07:17	CH	EET MID

Client Sample ID: PH02

Lab Sample ID: 890-3970-2

Date Collected: 01/26/23 10:45

Matrix: Solid

Date Received: 01/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	45609	02/06/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45649	02/07/23 14:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45727	02/07/23 16:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			45978	02/10/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45703	02/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45833	02/09/23 22:52	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	45098	01/30/23 16:20	KS	EET MID
Soluble	Analysis	300.0		1			45287	02/03/23 07:24	CH	EET MID

Client Sample ID: PH03

Lab Sample ID: 890-3970-3

Date Collected: 01/26/23 12:45

Matrix: Solid

Date Received: 01/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	45609	02/06/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45649	02/07/23 15:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45727	02/07/23 16:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			45978	02/10/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45703	02/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45833	02/09/23 23:14	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	45098	01/30/23 16:20	KS	EET MID
Soluble	Analysis	300.0		1			45287	02/03/23 07:30	CH	EET MID

Client Sample ID: PH04

Lab Sample ID: 890-3970-4

Date Collected: 01/26/23 12:55

Matrix: Solid

Date Received: 01/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	45609	02/06/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45649	02/07/23 15:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45727	02/07/23 16:59	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Client Sample ID: PH04

Lab Sample ID: 890-3970-4

Date Collected: 01/26/23 12:55

Matrix: Solid

Date Received: 01/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			45978	02/10/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45703	02/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45833	02/09/23 23:36	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45098	01/30/23 16:20	KS	EET MID
Soluble	Analysis	300.0		1			45287	02/03/23 07:36	CH	EET MID

Client Sample ID: PH05

Lab Sample ID: 890-3970-5

Date Collected: 01/26/23 12:25

Matrix: Solid

Date Received: 01/27/23 09:20

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	45609	02/06/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45649	02/07/23 16:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45727	02/07/23 16:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			45978	02/10/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45703	02/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45833	02/09/23 23:58	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45098	01/30/23 16:20	KS	EET MID
Soluble	Analysis	300.0		1			45287	02/03/23 07:42	CH	EET MID

Client Sample ID: PH06

Lab Sample ID: 890-3970-6

Date Collected: 01/26/23 13:10

Matrix: Solid

Date Received: 01/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	45609	02/06/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45649	02/07/23 16:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45727	02/07/23 16:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			45978	02/10/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45703	02/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45833	02/10/23 00:20	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	45098	01/30/23 16:20	KS	EET MID
Soluble	Analysis	300.0		1			45287	02/03/23 08:00	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
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- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

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 500 CTB

Job ID: 890-3970-1
SDG: 03C1558151

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3970-1	PH01	Solid	01/26/23 12:10	01/27/23 09:20	3'
890-3970-2	PH02	Solid	01/26/23 10:45	01/27/23 09:20	3'
890-3970-3	PH03	Solid	01/26/23 12:45	01/27/23 09:20	2'
890-3970-4	PH04	Solid	01/26/23 12:55	01/27/23 09:20	1'
890-3970-5	PH05	Solid	01/26/23 12:25	01/27/23 09:20	1'
890-3970-6	PH06	Solid	01/26/23 13:10	01/27/23 09:20	1'

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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) 986-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Ben Beilli	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project: _____	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Name:	Remuda 500 CTB	Turn Around	☒ Routine ☐ Rush	Pres. Code	ANALYSIS REQUEST		Preservative Codes
Project Number:	03C1558151	Due Date:					None: NO DI Water: H ₂ O
Project Location:		TAT starts the day received by the lab, if received by 4:30pm					Cool: Cool MeOH: Me
Sampler's Name:	Connor Whitman						HCL: HC HNO ₃ : HN
PO #:		Temp Blank: ☒ Yes ☒ No	Well Ice: ☒ Yes ☒ No				H ₂ SO ₄ : H ₂
SAMPLE RECEIPT				Thermometer ID:			H ₃ PO ₄ : HP
Samples Received Intact:	☒ Yes ☐ No	Correction Factor:					NaHSO ₄ : NABIS
Cooler Custody Seals:	☒ Yes ☐ No	Temperature Reading:					Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	☒ Yes ☐ No	Corrected Temperature:					Zn Acetate+NaOH: Zn
Total Containers:							NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
PH01	S	1/26/23	12:10	3'	G	1				Incident ID: nAPP2234832761
PH02	S		10:45	3'		1				Cost Center: 1067601001
PH03			12:45	2'		1				
PH04			12:55	1'		1				
PH05			12:25	1'		1				
PH06			1:10	1'		1				



890-3970 Chain of Custody

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 Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TC1P / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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 negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Cuth</i>	<i>Andrew Stief</i>	1-27-23 2:40			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3970-1

SDG Number: 03C1558151

Login Number: 3970

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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: 890-3970-1

SDG Number: 03C1558151

Login Number: 3970

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/30/23 09:34 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 2/10/2023 12:02:58 PM

JOB DESCRIPTION

Remuda 500 CTB

SDG NUMBER 03C1558151

JOB NUMBER

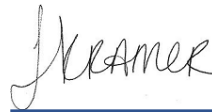
890-3971-1

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
2/10/2023 12:02:58 PM

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

Client: Ensolum
Project/Site: Remuda 500 CTB

Laboratory Job ID: 890-3971-1
SDG: 03C1558151

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Definitions/Glossary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Job ID: 890-3971-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3971-1

Receipt

The samples were received on 1/27/2023 9:20 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 3.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS07 (890-3971-1), SS08 (890-3971-2), SS09 (890-3971-3), SS10 (890-3971-4) and SS11 (890-3971-5).

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 surrogate recovery for the blank associated with preparation batch 880-45703 and analytical batch 880-45833 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3967-A-1-D MS) and (890-3967-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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-45098 and analytical batch 880-45287 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
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Client Sample ID: SS07

Lab Sample ID: 890-3971-1

Date Collected: 01/26/23 13:30

Matrix: Solid

Date Received: 01/27/23 09:20

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		02/06/23 14:24	02/07/23 17:22	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/06/23 14:24	02/07/23 17:22	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/06/23 14:24	02/07/23 17:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/06/23 14:24	02/07/23 17:22	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/06/23 14:24	02/07/23 17:22	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/06/23 14:24	02/07/23 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	02/06/23 14:24	02/07/23 17:22	1
1,4-Difluorobenzene (Surr)	112		70 - 130	02/06/23 14:24	02/07/23 17:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/08/23 11:07	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			02/10/23 10:51	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	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/10/23 00:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/10/23 00:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/10/23 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	02/07/23 13:15	02/10/23 00:43	1
o-Terphenyl	101		70 - 130	02/07/23 13:15	02/10/23 00:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.0		5.00	mg/Kg			02/03/23 08:07	1

Client Sample ID: SS08

Lab Sample ID: 890-3971-2

Date Collected: 01/26/23 13:35

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 17:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 17:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 17:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/06/23 14:24	02/07/23 17:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/06/23 14:24	02/07/23 17:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/06/23 14:24	02/07/23 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	02/06/23 14:24	02/07/23 17:43	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Client Sample ID: SS08

Lab Sample ID: 890-3971-2

Date Collected: 01/26/23 13:35

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	113		70 - 130	02/06/23 14:24	02/07/23 17:43	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			02/08/23 11:07	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			02/10/23 10:51	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	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/10/23 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/10/23 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/10/23 01:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			02/07/23 13:15	02/10/23 01:04	1
o-Terphenyl	113		70 - 130			02/07/23 13:15	02/10/23 01:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.3		4.98	mg/Kg			02/03/23 08:25	1

Client Sample ID: SS09

Lab Sample ID: 890-3971-3

Date Collected: 01/26/23 13:40

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/06/23 14:24	02/07/23 19:33	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/06/23 14:24	02/07/23 19:33	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/06/23 14:24	02/07/23 19:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/06/23 14:24	02/07/23 19:33	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/06/23 14:24	02/07/23 19:33	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/06/23 14:24	02/07/23 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	02/06/23 14:24	02/07/23 19:33	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/06/23 14:24	02/07/23 19:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/08/23 11:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/10/23 10:51	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Client Sample ID: SS09

Lab Sample ID: 890-3971-3

Date Collected: 01/26/23 13:40

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 0.5'

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		02/07/23 13:15	02/10/23 01:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/10/23 01:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/10/23 01:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			02/07/23 13:15	02/10/23 01:27	1
o-Terphenyl	107		70 - 130			02/07/23 13:15	02/10/23 01:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.1		4.95	mg/Kg			02/03/23 08:31	1

Client Sample ID: SS10

Lab Sample ID: 890-3971-4

Date Collected: 01/26/23 13:45

Matrix: Solid

Date Received: 01/27/23 09:20

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		02/06/23 14:24	02/07/23 19:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 19:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 19:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/06/23 14:24	02/07/23 19:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 19:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/06/23 14:24	02/07/23 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			02/06/23 14:24	02/07/23 19:53	1
1,4-Difluorobenzene (Surr)	111		70 - 130			02/06/23 14:24	02/07/23 19:53	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			02/08/23 11:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/10/23 10:51	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		02/07/23 13:15	02/10/23 02:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/10/23 02:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/10/23 02:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			02/07/23 13:15	02/10/23 02:12	1
o-Terphenyl	107		70 - 130			02/07/23 13:15	02/10/23 02:12	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Client Sample ID: SS10

Lab Sample ID: 890-3971-4

Date Collected: 01/26/23 13:45

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.89		5.00	mg/Kg			02/03/23 08:37	1

Client Sample ID: SS11

Lab Sample ID: 890-3971-5

Date Collected: 01/26/23 13:50

Matrix: Solid

Date Received: 01/27/23 09:20

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/06/23 14:24	02/07/23 20:14	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/06/23 14:24	02/07/23 20:14	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/06/23 14:24	02/07/23 20:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/06/23 14:24	02/07/23 20:14	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/06/23 14:24	02/07/23 20:14	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/06/23 14:24	02/07/23 20:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			02/06/23 14:24	02/07/23 20:14	1
1,4-Difluorobenzene (Surr)	107		70 - 130			02/06/23 14:24	02/07/23 20:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/08/23 11:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/10/23 10:51	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		02/07/23 13:15	02/10/23 02:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/10/23 02:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/07/23 13:15	02/10/23 02:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130			02/07/23 13:15	02/10/23 02:35	1
o-Terphenyl	92		70 - 130			02/07/23 13:15	02/10/23 02:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.59		4.99	mg/Kg			02/03/23 08:43	1

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Surrogate Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-3970-A-1-D MS	Matrix Spike	110	109
890-3970-A-1-E MSD	Matrix Spike Duplicate	110	109
890-3971-1	SS07	113	112
890-3971-2	SS08	112	113
890-3971-3	SS09	107	109
890-3971-4	SS10	113	111
890-3971-5	SS11	116	107
LCS 880-45609/1-A	Lab Control Sample	98	117
LCSD 880-45609/2-A	Lab Control Sample Dup	106	112
MB 880-45609/5-A	Method Blank	104	107
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 Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3967-A-1-D MS	Matrix Spike	15 S1-	10 S1-
890-3967-A-1-E MSD	Matrix Spike Duplicate	17 S1-	11 S1-
890-3971-1	SS07	89	101
890-3971-2	SS08	95	113
890-3971-3	SS09	97	107
890-3971-4	SS10	93	107
890-3971-5	SS11	79	92
LCS 880-45703/2-A	Lab Control Sample	102	114
LCSD 880-45703/3-A	Lab Control Sample Dup	92	105
MB 880-45703/1-A	Method Blank	126	146 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45609/5-A

Matrix: Solid

Analysis Batch: 45649

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45609

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 14:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 14:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 14:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/06/23 14:24	02/07/23 14:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/23 14:24	02/07/23 14:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/06/23 14:24	02/07/23 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/06/23 14:24	02/07/23 14:10	1
1,4-Difluorobenzene (Surr)	107		70 - 130	02/06/23 14:24	02/07/23 14:10	1

Lab Sample ID: LCS 880-45609/1-A

Matrix: Solid

Analysis Batch: 45649

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1061		mg/Kg		106	70 - 130
Toluene	0.100	0.09672		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09549		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1984		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09429		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-45609/2-A

Matrix: Solid

Analysis Batch: 45649

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45609

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1055		mg/Kg		105	70 - 130	1	35
Toluene	0.100	0.1010		mg/Kg		101	70 - 130	4	35
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2116		mg/Kg		106	70 - 130	6	35
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-3970-A-1-D MS

Matrix: Solid

Analysis Batch: 45649

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.1045		mg/Kg		103	70 - 130
Toluene	<0.00202	U	0.101	0.1037		mg/Kg		103	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

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

Lab Sample ID: 890-3970-A-1-D MS

Matrix: Solid

Analysis Batch: 45649

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.101	0.1043		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.202	0.2205		mg/Kg		109	70 - 130
o-Xylene	<0.00202	U	0.101	0.1041		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-3970-A-1-E MSD

Matrix: Solid

Analysis Batch: 45649

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45609

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.09658		mg/Kg		98	70 - 130	8	35
Toluene	<0.00202	U	0.0990	0.09874		mg/Kg		100	70 - 130	5	35
Ethylbenzene	<0.00202	U	0.0990	0.09962		mg/Kg		101	70 - 130	5	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.2114		mg/Kg		107	70 - 130	4	35
o-Xylene	<0.00202	U	0.0990	0.1006		mg/Kg		101	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-45703/1-A

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45703

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/09/23 20:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/09/23 20:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/07/23 13:15	02/09/23 20:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	02/07/23 13:15	02/09/23 20:17	1
o-Terphenyl	146	S1+	70 - 130	02/07/23 13:15	02/09/23 20:17	1

Lab Sample ID: LCS 880-45703/2-A

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	810.1		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	914.1		mg/Kg		91	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

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

Lab Sample ID: LCS 880-45703/2-A

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45703

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-45703/3-A

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	825.3		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	880.0		mg/Kg		88	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-3967-A-1-D MS

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45703

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	900.3		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	962.8		mg/Kg		95	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	15	S1-	70 - 130
o-Terphenyl	10	S1-	70 - 130

Lab Sample ID: 890-3967-A-1-E MSD

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45703

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1066		mg/Kg		107	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1085		mg/Kg		107	70 - 130	12	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	17	S1-	70 - 130
o-Terphenyl	11	S1-	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45098/1-A

Matrix: Solid

Analysis Batch: 45287

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/03/23 05:57	1

Lab Sample ID: LCS 880-45098/2-A

Matrix: Solid

Analysis Batch: 45287

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	269.4		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-45098/3-A

Matrix: Solid

Analysis Batch: 45287

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	270.0		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-3970-A-5-C MS

Matrix: Solid

Analysis Batch: 45287

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	102	F1	250	382.4	F1	mg/Kg		112	90 - 110

Lab Sample ID: 890-3970-A-5-D MSD

Matrix: Solid

Analysis Batch: 45287

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	102	F1	250	382.4	F1	mg/Kg		112	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

GC VOA

Prep Batch: 45609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3971-1	SS07	Total/NA	Solid	5035	
890-3971-2	SS08	Total/NA	Solid	5035	
890-3971-3	SS09	Total/NA	Solid	5035	
890-3971-4	SS10	Total/NA	Solid	5035	
890-3971-5	SS11	Total/NA	Solid	5035	
MB 880-45609/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45609/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45609/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3970-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3970-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3971-1	SS07	Total/NA	Solid	8021B	45609
890-3971-2	SS08	Total/NA	Solid	8021B	45609
890-3971-3	SS09	Total/NA	Solid	8021B	45609
890-3971-4	SS10	Total/NA	Solid	8021B	45609
890-3971-5	SS11	Total/NA	Solid	8021B	45609
MB 880-45609/5-A	Method Blank	Total/NA	Solid	8021B	45609
LCS 880-45609/1-A	Lab Control Sample	Total/NA	Solid	8021B	45609
LCSD 880-45609/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45609
890-3970-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	45609
890-3970-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45609

Analysis Batch: 45766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3971-1	SS07	Total/NA	Solid	Total BTEX	
890-3971-2	SS08	Total/NA	Solid	Total BTEX	
890-3971-3	SS09	Total/NA	Solid	Total BTEX	
890-3971-4	SS10	Total/NA	Solid	Total BTEX	
890-3971-5	SS11	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3971-1	SS07	Total/NA	Solid	8015NM Prep	
890-3971-2	SS08	Total/NA	Solid	8015NM Prep	
890-3971-3	SS09	Total/NA	Solid	8015NM Prep	
890-3971-4	SS10	Total/NA	Solid	8015NM Prep	
890-3971-5	SS11	Total/NA	Solid	8015NM Prep	
MB 880-45703/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45703/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3967-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3967-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3971-1	SS07	Total/NA	Solid	8015B NM	45703
890-3971-2	SS08	Total/NA	Solid	8015B NM	45703

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QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

GC Semi VOA (Continued)

Analysis Batch: 45833 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3971-3	SS09	Total/NA	Solid	8015B NM	45703
890-3971-4	SS10	Total/NA	Solid	8015B NM	45703
890-3971-5	SS11	Total/NA	Solid	8015B NM	45703
MB 880-45703/1-A	Method Blank	Total/NA	Solid	8015B NM	45703
LCS 880-45703/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45703
LCSD 880-45703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45703
890-3967-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	45703
890-3967-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45703

Analysis Batch: 45979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3971-1	SS07	Total/NA	Solid	8015 NM	
890-3971-2	SS08	Total/NA	Solid	8015 NM	
890-3971-3	SS09	Total/NA	Solid	8015 NM	
890-3971-4	SS10	Total/NA	Solid	8015 NM	
890-3971-5	SS11	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 45098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3971-1	SS07	Soluble	Solid	DI Leach	
890-3971-2	SS08	Soluble	Solid	DI Leach	
890-3971-3	SS09	Soluble	Solid	DI Leach	
890-3971-4	SS10	Soluble	Solid	DI Leach	
890-3971-5	SS11	Soluble	Solid	DI Leach	
MB 880-45098/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45098/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45098/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3970-A-5-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3970-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3971-1	SS07	Soluble	Solid	300.0	45098
890-3971-2	SS08	Soluble	Solid	300.0	45098
890-3971-3	SS09	Soluble	Solid	300.0	45098
890-3971-4	SS10	Soluble	Solid	300.0	45098
890-3971-5	SS11	Soluble	Solid	300.0	45098
MB 880-45098/1-A	Method Blank	Soluble	Solid	300.0	45098
LCS 880-45098/2-A	Lab Control Sample	Soluble	Solid	300.0	45098
LCSD 880-45098/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45098
890-3970-A-5-C MS	Matrix Spike	Soluble	Solid	300.0	45098
890-3970-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	45098

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Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Client Sample ID: SS07

Lab Sample ID: 890-3971-1

Date Collected: 01/26/23 13:30

Matrix: Solid

Date Received: 01/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	45609	02/06/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45649	02/07/23 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45766	02/08/23 11:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45979	02/10/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45703	02/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45833	02/10/23 00:43	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45098	01/30/23 16:20	KS	EET MID
Soluble	Analysis	300.0		1			45287	02/03/23 08:07	CH	EET MID

Client Sample ID: SS08

Lab Sample ID: 890-3971-2

Date Collected: 01/26/23 13:35

Matrix: Solid

Date Received: 01/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	45609	02/06/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45649	02/07/23 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45766	02/08/23 11:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45979	02/10/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45703	02/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45833	02/10/23 01:04	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	45098	01/30/23 16:20	KS	EET MID
Soluble	Analysis	300.0		1			45287	02/03/23 08:25	CH	EET MID

Client Sample ID: SS09

Lab Sample ID: 890-3971-3

Date Collected: 01/26/23 13:40

Matrix: Solid

Date Received: 01/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	45609	02/06/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45649	02/07/23 19:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45766	02/08/23 11:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45979	02/10/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45703	02/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45833	02/10/23 01:27	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45098	01/30/23 16:20	KS	EET MID
Soluble	Analysis	300.0		1			45287	02/03/23 08:31	CH	EET MID

Client Sample ID: SS10

Lab Sample ID: 890-3971-4

Date Collected: 01/26/23 13:45

Matrix: Solid

Date Received: 01/27/23 09:20

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	45609	02/06/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45649	02/07/23 19:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45766	02/08/23 11:07	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Client Sample ID: SS10
Date Collected: 01/26/23 13:45
Date Received: 01/27/23 09:20

Lab Sample ID: 890-3971-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			45979	02/10/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45703	02/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45833	02/10/23 02:12	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45098	01/30/23 16:20	KS	EET MID
Soluble	Analysis	300.0		1			45287	02/03/23 08:37	CH	EET MID

Client Sample ID: SS11
Date Collected: 01/26/23 13:50
Date Received: 01/27/23 09:20

Lab Sample ID: 890-3971-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	45609	02/06/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45649	02/07/23 20:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45766	02/08/23 11:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45979	02/10/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45703	02/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45833	02/10/23 02:35	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	45098	01/30/23 16:20	KS	EET MID
Soluble	Analysis	300.0		1			45287	02/03/23 08:43	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
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

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 500 CTB

Job ID: 890-3971-1
SDG: 03C1558151

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3971-1	SS07	Solid	01/26/23 13:30	01/27/23 09:20	0.5'
890-3971-2	SS08	Solid	01/26/23 13:35	01/27/23 09:20	0.5'
890-3971-3	SS09	Solid	01/26/23 13:40	01/27/23 09:20	0.5'
890-3971-4	SS10	Solid	01/26/23 13:45	01/27/23 09:20	0.5'
890-3971-5	SS11	Solid	01/26/23 13:50	01/27/23 09:20	0.5'



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Ben Bellill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project: _____	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	Deliverables: EDO ☐ ADAPT ☐ Other: _____

Project Name:	Remuda 500 CTB	Turn Around	☒ Routine ☐ Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes					
Project Number:	03C1558151	Due Date:	TAT starts the day received by the lab, if received by 4:30pm													None: NO	DI Water: H ₂ O			
Project Location:	Connor Whitman	Due Date:														Cool: Cool	MeOH: Me			
Sampler's Name:	Connor Whitman	Due Date:														HCL: HC	HNO ₃ : HN			
PO #:		Due Date:														H ₂ SO ₄ : H ₂	NaOH: Na			
SAMPLE RECEIPT		Temp Blank:	☒ Yes ☐ No	Thermometer ID:	IN-207											H ₃ PO ₄ : HP				
Samples Received Intact:	☒ Yes ☐ No	Correction Factor:														NaHSO ₄ : NABIS				
Cooler Custody Seals:	☒ Yes ☐ No	Temperature Reading:														Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seals:	☒ Yes ☐ No	Corrected Temperature:														Zn Acetate+NaOH: Zn				
Total Containers:																NaOH+Ascorbic Acid: SACP				
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont											Sample Comments			
5507	S	1/26/23	1:30	.5'	G	1	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)											Incident ID: nAPP2234832761
5508	S	1/26/23	1:35	.5'	1	1														Cost Center: 1067601001
5509	S	1/26/23	1:40	.5'	1	1														AFF: 1067601001
5510	S	1/26/23	1:45	.5'	1	1														
5511	S	1/26/23	1:50	.5'	1	1														

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 Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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 negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>CMC</i>	<i>Garrett Green</i>	1-27-23 08:00			
3		4			
5		6			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3971-1

SDG Number: 03C1558151

Login Number: 3971

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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: 890-3971-1

SDG Number: 03C1558151

Login Number: 3971

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/30/23 09:34 AM

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	



APPENDIX E

NMOCD Notifications

Ben Belill

From: Foust, Bryan Jacob <bryan.foust@exxonmobil.com>
Sent: Wednesday, January 11, 2023 12:16 PM
To: ocd.enviro@emnrd.nm.gov; Robert.Hamlet@emnrd.nm.gov; Bratcher, Michael, EMNRD
Cc: Ben Belill; Green, Garrett J; DelawareSpills /SM
Subject: XTO - 48 hour liner inspection notification - Remuda 500 Battery - released 11/30/2022

[**EXTERNAL EMAIL**]

Good afternoon,

This is sent as a 48-hour notification, XTO is scheduled to inspect the lined containment at Remuda 500 CTB (Incident Number nAPP2234832761) on Friday, January 13, 2023, at 12:00 pm MST. Please call us with any questions or concerns.

GPS Coordinates: (32.27026 ,-103.93653)

Thank you,

Jake Foust
SSHE Coordinator (environmental)
432-266-2663

From: [Green, Garrett J](#)
To: ocd.enviro@emnrd.nm.gov; [Bratcher, Michael, EMNRD](#); [Harimon, Jocelyn, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Cc: [Tacoma Morrissey](#); [DelawareSpills /SM](#)
Subject: XTO - Sampling Notification (Week of 1/23/23 - 1/27/23)
Date: Thursday, January 19, 2023 9:34:01 AM

[**EXTERNAL EMAIL **]

All,

XTO plans to complete final sampling activities at the following sites the week of Jan 23, 2023.

- Big Sinks 2-24-30 / NAB1913729531
- PLU PC 28 / nAPP2233349315
- Remuda 500 / NAPP2300441385, NAPP2300448092, NAPP2300641362 & nAPP2234832761
- PLU 29 BS CTB / nAPP2235642838

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

May 18, 2023 *Closure Request*,
Incident Number NAPP2306544797



May 18, 2023

New Mexico Oil Conservation Division

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

**Re: Closure Request
Remuda 500 Battery
Incident Number NAPP2306544797
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 500 Battery (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 release of produced water at the Site. Based on Site assessment activities and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation activities that have occurred and requesting no further action for Incident Number NAPP2306544797.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.27022°, -103.93660°) and is associated with oil and gas exploration and production operations on New Mexico State Trust Land managed by the New Mexico State Land Office (NMSLO).

On February 21, 2023, a seal on a produced water transfer pump failed, resulting in the release of approximately 5.5 barrels (bbls) of produced water into a lined containment and onto the surface of the well pad without any of the release encroaching into the pasture. A vacuum truck was immediately dispatched to the Site and approximately 4.0 bbls of released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on March 3, 2023. The release was assigned Incident Number NAPP2306544797.

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 recent soil boring drilled for determination of regional groundwater depth. On January 5, 2021, a soil boring permitted by New Mexico Office of the State Engineer (NMOSE file number C-04494) was completed approximately 0.33 miles northwest of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-04494 was drilled to a depth of 105 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

XTO Energy, Inc
Closure Request
Remuda 500 Battery

72-hour waiting period without observing groundwater, it was confirmed groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 320 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake, and is greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet from 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 (medium 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

CULTURAL RESOURCE SURVEY

Since the release remained on pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release. Ensolum did not observe any cultural resources at the Site during remedial actions.

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On March 10, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Twelve delineation soil samples (SS01 through SS12) were collected within and around the release extent at a depth of 0.5 feet bgs. Soil samples SS01 through SS07 were collected within the release extent and soil samples SS08 through SS12 were collected around the release extent to assess the lateral extent of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and 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 visits and a photographic log is included in Appendix B. Disturbances of cultural resources during site assessment activities was not observed and as such, no photographic evidence of cultural resources could be documented.

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

XTO Energy, Inc
Closure Request
Remuda 500 Battery

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 equilibrated to 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

A 48-hour advance notice of liner inspection was provided via email to the NMOCD District II office on March 17, 2023. A liner integrity inspection was conducted by Ensolum personnel on March 21, 2023, to confirm the liner was operating as designed. The liner was visually inspected and no rips, holes, or damage to the liner was observed. The liner was determined to be in good working condition. A photograph of the containment is included in Appendix B and the liner containment area is depicted on Figure 2.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between March 22 and March 23, 2023, Ensolum personnel returned to the Site to complete additional delineation activities. Seven potholes (PH01 through PH07) were advanced by use of heavy equipment to assess the vertical extent of the release. Potholes PH01 through PH07 were advanced in the vicinity of soil sample locations SS01 through SS07, respectively. Discrete delineation soil samples were collected from each pothole at the terminal depth of 2 feet bgs to further confirm the absence of impacted soil. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs and are included in Appendix C. Delineation soil sample SS13 was collected just east of SS12 at 0.5 feet bgs in order to fully define the release to the strictest Table I Closure Criteria. All delineation soil samples were field screened, handled, and analyzed following the same procedures as described above. The delineation soil sample locations are depicted on Figure 2.

Laboratory analytical results indicated all COC concentrations for all delineation soil samples were compliant with the Site Closure Criteria. Additionally, the release has been laterally delineated to the strictest Table I Closure Criteria with soil samples SS08 through SS11, and SS13. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

Surface scraping of waste-containing soil (those soil not meeting the strictest Closure Criteria but do meet the Site-specific Closure Criteria) was completed by use of a backhoe to address surficial staining present within and around the release extent area. The surface scraping area included soil in the vicinity of soil samples SS01 through SS07 and SS12. A photograph of surface scraping activities is included in Appendix B.

RECLAMATION PLAN

The release remained on the well pad that is currently in operation for oil and gas production purposes. As such, the release area is not expected to be reclaimed until the plugging and abandoning (P&Aing) of all production wells associated with the tank battery and decommissioning of all production equipment, pipelines, and tank battery, which will be removed, and the well pad is reclaimed. The Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the well pad per 19.2.100.67 NMAC.

Per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation, any soil within the top 4 feet of the disturbed area would be assessed to meet the strictest Closure Criteria. A review of delineation and confirmation soil analytical results indicate there are areas of waste-containing soil, which will be addressed at the time of reclaiming the well pad associated with the P&Aing of the production well. All other requirements of 19.2.100.67 NMAC will be addressed prior to, during, and after the P&Aing of the production well.

XTO Energy, Inc
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Remuda 500 Battery

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil from the February 21, 2023 release of produced water. The produced water release occurred within the lined containment and spilled onto the well pad; the liner was inspected and determined to be in good condition. Laboratory analytical results for all delineation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria. Soil samples SS08 through SS11, and SS13 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria, and successfully defined the lateral extent of the release. Additionally, surficial staining from the release was addressed by surface scraping activities completed by a backhoe.

Based on initial response efforts, soil sample laboratory analytical results compliant with the Site Closure Criteria, confirmed depth to groundwater greater than 100 feet bgs, and no other sensitive receptors identified near the release extent, no additional remediation was required as a result of the produced water release. XTO believes actions completed to address the produced water release have been protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2306544797.

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

Sincerely,
Ensolum, LLC



Benjamin J. Belill
Project Geologist



Daniel R. Moir PG
Senior Managing Geologist

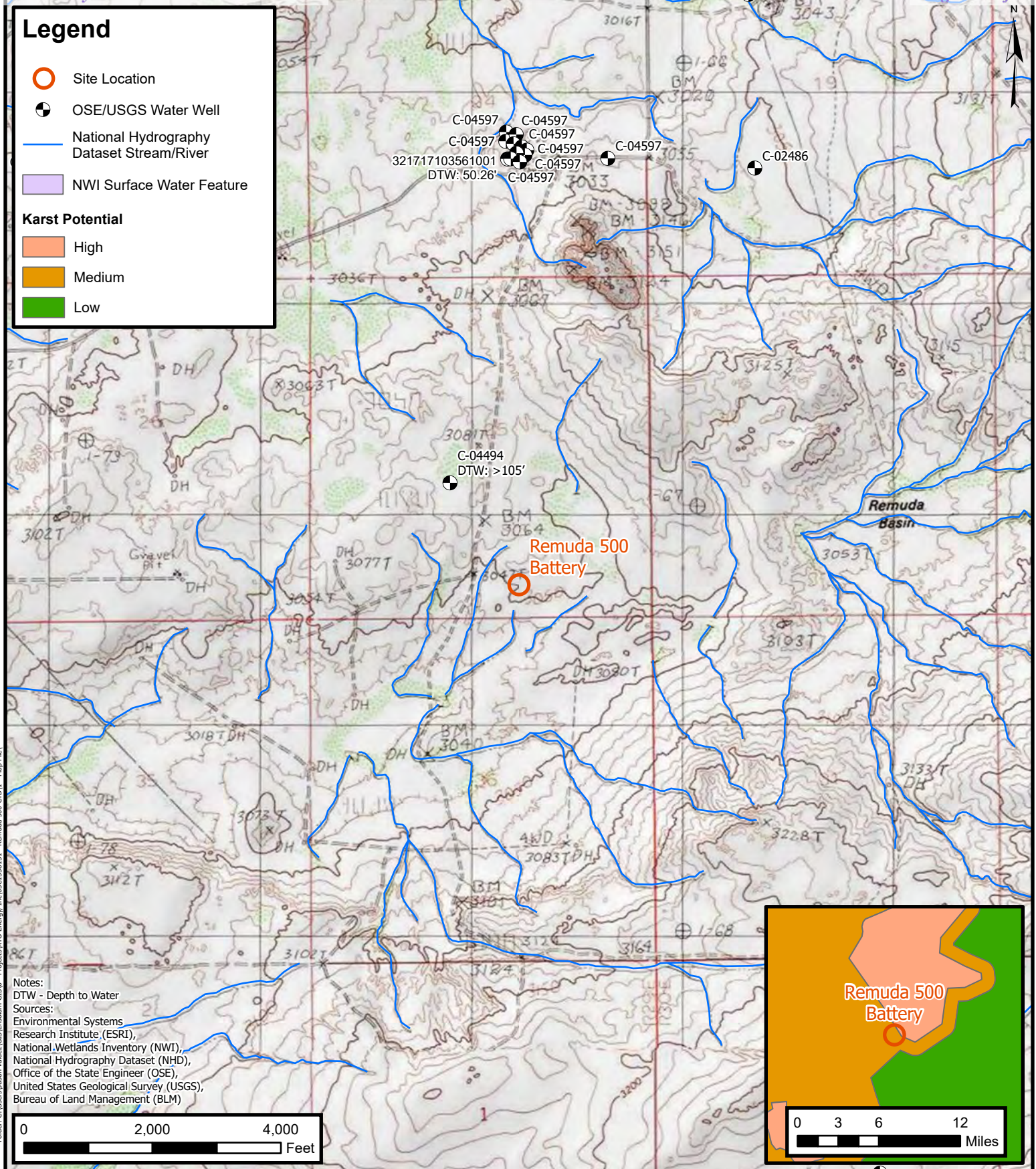
cc: Garrett Green, XTO
Shelby Pennington, XTO
NMSLO - ECO

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithology Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications

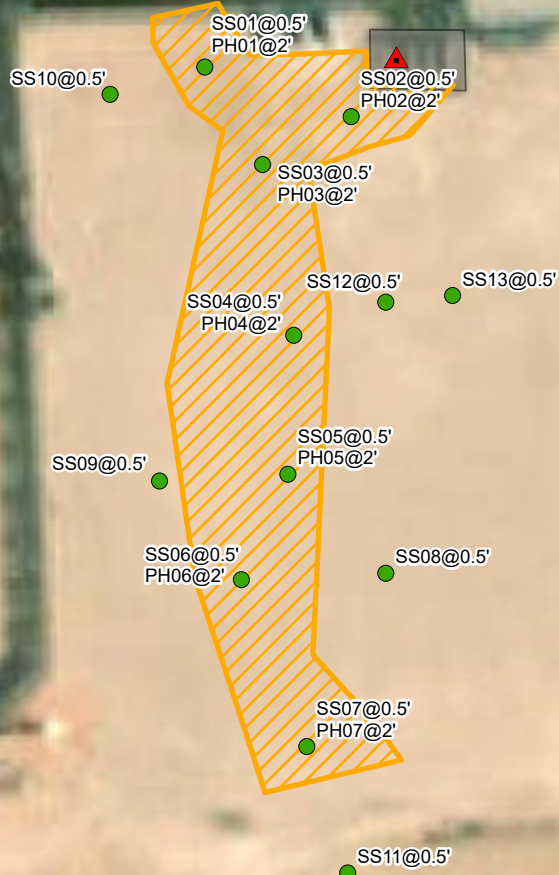


FIGURES

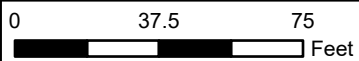


Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- ▲ Release Point
- Release Extent
- Liner Containment Area



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

XTO Energy, Inc
Remuda 500 Battery
Incident Number: NAPP2306544797
Unit O Sec 25 T23S R29E
Eddy County, New Mexico

FIGURE
2



TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Remuda 500 Battery
 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
Delineation Soil Samples										
SS01	03/10/2023	0.5	<0.0402	<0.0803	<50.0	<50.0	<50.0	<50.0	<50.0	7,720
PH01	03/22/2023	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	4,020
SS02	03/10/2023	0.5	<0.0396	<0.0792	<50.0	<50.0	<50.0	<50.0	<50.0	13,900
PH02	03/22/2023	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	2,050
SS03	03/10/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,250
PH03	03/22/2023	2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	255
SS04	03/10/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	251	251	251	3,310
PH04	03/22/2023	2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	131
SS05	03/10/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,690
PH05	03/22/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	271
SS06	03/10/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	1,670
PH06	03/22/2023	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	244
SS07	03/10/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	1,450
PH07	03/22/2023	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	152
SS08	03/10/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	29.6
SS09	03/10/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	167
SS10	03/10/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	151
SS11	03/10/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	10.3
SS12	03/10/2023	0.5	<0.00202	<0.00404	<49.9	404	50.9	455	455	58.6
SS13	03/23/2023	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	381

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



APPENDIX A

Referenced Well Records

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01 (C-04494)		11/18/2020, 12/02/20, 01/05/2021				
		Site Name:		Remuda North 25 Observation Well				
		RP or Incident Number:						
		LTE Job Number:		TE012919039				
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening:		Hole Diameter:				
				6.25", 4.25"				
				Total Depth:				
				105'				
Comments:								
Lithology remarks only. No field screenings: Dry hole								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			1	SP-SC	
						2		0-1' : SAND, dry, brown, poorly graded, fine grain, Clay (10% clay), some roots, no stain, no odor
						3		
						4		1-4' : SAND, dry, reddish-light brown, poorly graded, very fine - fine grain, some rounded caliche pebbles, no stain, no odor
D			N			5	CCHE	
						6		4-9' : CALICHE, dry, light brown-tan, poorly consolidated, sub-rounded caliche pebbles and gravel, very silty, gradational
						7		
						8		9-14' : Abundant sub-round caliche gravel
						9		14-19' : Some sub-angular caliche gravel and pebbles
						10		19-24' : Abundant sub-angular caliche gravel and pebbles, moderately consolidated
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		
						21		
						22		
						23		
						24		
D			N			25	CL	

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name:		Date:	
								BH01 (C-04494)		11/18/2020, 12/02/20, 01/05/2021	
								Site Name:		Remuda North 25 Observation Well	
								RP or Incident Number:			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic	
Lat/Long:				Field Screening:				Hole Diameter:		Total Depth:	
								6.25", 4.25"		105'	
Comments: Lithology remarks only. No field screenings: Dry hole											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D			N			26	CL	24-39' : MUDSTONE, dry, reddish-brown, low plasticity, well consolidated, cohesive, trace caliche sub-angular pebbles, no tain, no odor, sharp transition 34-39' : Sub-angular calcium carbonate gravel with dissolution features (1-3mm), tan-light brown At 39' : Begin air rotary (4.25") 39-42' : DOLOMETIC LIMESTONE, tan-light brown, dry, well consolidated, with dissolution features (1-3mm), sharp, no stain, no odor, light to moderate reaction with HCl 42-45' : Some light gray dolomite with trace dissolution features (>1mm) At 48' : Stop due to air rotary refusal (11/18/20)			
						27					
28											
29											
30											
31											
32											
33											
34											
35											
D			N			36	DOL	48-56' : Advance borehole with new air rotary bit (12/02/20), DOLOMITE, white, well consolidated, dark gray-black banding, no stain , no odor			
						37					
						38					
						39					
						40					
						41					
						42					
						43					
						44					
						45					
						46		Refusal on 11/18/20 Restart borehole on 12/02/20			
						47					
						48					
						49					
						50					

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name:		Date:	
					BH01 (C-04494)		11/18/2020, 12/02/2020, 1/5/2021	
					Site Name:		Remuda North 25 Observation Well	
					RP or Incident Number:			
					LTE Job Number: TE012919039			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic	
Lat/Long:			Field Screening:		Hole Diameter:		Total Depth:	
					6.25", 4.25"		105'	
Comments: Lithologic log only, no field screenings								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			51	DOL	48-56' : Advanced borehole with new air rotary bit (12/02/20), DOLOMITE, white, well consolidated, dark gray- banding, no stain no odor At 56' : Restarted borehole on 1/5/2021 with sonic rig 56-65' : DOLOMITE, dry, light gray-gray, well consolidated, some calcium crystalline veins (<1mm), some dissolution features (2mm) with fine calcite crystalline, trace orange oxidation staining within dissolution features, no stain, no odor 62' : Brown-pale yellow coarse crystalline dolomitic limestone stringer (2cm) 63-65' : Abundant calcite crystalline veins (<1mm), pale green-gray, poorly consolidated 65-69' : MUDSTONE, moist, reddish brown, poorly consolidated, high plasticity, cohesive, abundant coarse crystalline gypsum, few pale green-gray mottling, no stain, no odor 69-81' : GYPSUM with Anhydrite, dry, greenish gray, some pale yellow, well consolidated, fine crystalline, 20% anhydrite, no stain, no odor
						52		
						53		
						54		
						55		
						56		
						57		
						58		
						59		
						60		
D			N			61	CH-S	
						62		
						63		
						64		
						65		
						66		
						67		
						68		
						69		
						70		
						71		
						72		
						73		
						74		
						75		
							GYP	

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01 (C-04494)		11/18/2020, 12/02/2020, 1/5/2021				
		Site Name:		Remuda North 25 Observation Well				
		RP or Incident Number:						
		LTE Job Number: TE012919039						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening:		Hole Diameter:				
				6.25", 4.25"				
				Total Depth:				
				105'				
Comments: Lithologic log only, no field screenings								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			76	GYP	69-81' : GYPSUM with Anhydrite, dry, greenish gray, some pale yellow, well consolidated, fine crystalline, 20% anhydrite, no stain, no odor
						77		
						78		
						79		
						80		
						81	CH-S	90-98' : Some fine grain brown sand At 97' : dark gray-gray gypsum stringer (4cm) 98-99.5' : GYPSUM, dark gray-gray, some brown, dry, well consolidated, fine-coarse crystalline, no stain, no odor 99.5-105' : Sandy SILTSTONE, moist, brown, some gray-dark gray, poorly consolidated, 20% very fine grain sand, no stain, no odor
						82		
						83		
						84		
						85		
						86		
						87		
						88		
						89		
						90		
						91		
						92		
						93		
94								
95								
96								
97								
D			N			98	GYP	
						99		
D			N			100	ML-S	

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01 (C-04494)		11/18/2020, 12/02/2020, 1/5/2021				
		Site Name:		Remuda North 25 Observation Well				
		RP or Incident Number:						
		LTE Job Number: TE012919039						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening:		Hole Diameter:				
				6.25", 4.25"				
				Total Depth:				
				105'				
Comments:								
Lithologic log only, no field screenings								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			101	ML-S	99.5-105' : Sandy SILTSTONE, moist, brown, some gray-dark gray, poorly consolidated, 20% very fine grain sand, no stain, no odor
						102		
						103		
						104		
						105		
						106		TD @ 105' bgs (1/5/2021)
						107		
						108		
						109		
						110		
						111		
						112		
						113		
						114		
						115		
						116		
						117		
						118		
						119		
						120		
						121		
						122		
						123		
						124		
						125		



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc

Remuda 500 Battery

Incident Number NAPP2306544797

Date & Time: Mon, Mar 13, 2023 at 10:03:57 MDT
 Position: +032.270083° / -103.936562° (±15.5ft)
 Altitude: 3063ft (±11.1ft)
 Datum: WGS-84
 Azimuth/Bearing: 332° N28W 5902mils True (±12°)
 Elevation Angle: -03.5°
 Horizon Angle: +01.5°
 Zoom: 0.5X
 facing NW top of smaller spill next to pumps
 Mainline O.D.L.



Photograph 1 Date: 3/13/2023
 Description: Site assessment, release extent area
 View: North



Photograph 2 Date: 3/21/2023
 Description: Liner in good working condition
 View: North



Photograph 3 Date: 3/22/2023
 Description: Delineation activities, area of PH03
 View: West



Photograph 4 Date: 3/23/2023
 Description: Surface scraping activities
 View: North



APPENDIX C

Lithologic Soil Sampling Logs

 ENSOLUM		Sample Name: PH01		Date: 3/22/2023				
		Site Name: Remuda 500 CTB						
		Incident Number: NAPP2306544797						
		Job Number: 03C1558187						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.270257, -103.936714			Logged By: MR		Method: Backhoe			
			Hole Diameter: NA		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	5,281	0.9	N	SS01	0.5	0	CCHE	0-0.5' CALICHE, medium brown, poorly sorted, sub-rounded grains, stained, no odor, dry.
D	8,686	0.7	N			1		0.5-2' CALICHE, medium to dark brown, trace siltstone pieces, poorly sorted, no stain, no odor, dry.
D	4,189	0.7	N	PH01	2	2 TD		Total Depth @ 2 ft bgs.

 ENSOLUM								Sample Name: PH02		Date: 3/22/2023	
								Site Name: Remuda 500 CTB			
								Incident Number: NAPP2306544797			
								Job Number: 03C1558187			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.270220, -103.936591								Hole Diameter: NA		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE	0-0.5' CALICHE, medium brown, poorly sorted, sub-rounded grains, stained, no odor, dry.			
D	15,109	1.4	N	SS02	0.5	1		0.5-2' CALICHE, medium brown, poorly sorted, sub-rounded grains, no stain, no odor, dry.			
D	5,813	2.2	N			2					
D	1,865	1.4	N	PH02	2	TD		Total Depth @ 2 ft bgs.			

 ENSOLUM								Sample Name: PH03		Date: 3/22/2023	
								Site Name: Remuda 500 CTB			
								Incident Number: NAPP2306544797			
								Job Number: 03C1558187			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.270202, -103.936691								Hole Diameter: NA		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE	0-0.5' CALICHE, medium brown, poorly sorted, sub-rounded grains, stained, no odor, dry.			
D	2,100	2.0	N	SS03	0.5	1		0.5-2' CALICHE, medium brown, medium grains, poorly sorted, sub-rounded grains, no stain, no odor, dry.			
D	246	0.5	N			2					
D	246	0.0	N	PH03	2	TD		Total Depth @ 2 ft bgs.			

								Sample Name: PH04		Date: 3/22/2023	
								Site Name: Remuda 500 CTB			
								Incident Number: NAPP2306544797			
								Job Number: 03C1558187			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.270064, -103.936642								Hole Diameter: NA		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE	0-0.5' CALICHE, medium brown, poorly sorted, sub-rounded grains, stained, no odor, dry.			
D	3,422	1.6	N	SS04	0.5	1		0.5-2' CALICHE, medium brown, medium grains, poorly sorted, sub-rounded grains, no stain, no odor, dry.			
D	1,036	0.6	N								
D	1,518	0.4	N	PH04	2	2					
						TD		Total Depth @ 2 ft bgs.			

 ENSOLUM								Sample Name: PH05		Date: 3/22/2023	
								Site Name: Remuda 500 CTB			
								Incident Number: NAPP2306544797			
								Job Number: 03C1558187			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.269960, -103.936655								Hole Diameter: NA		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	1,277	0.5	N	SS05	0.5	0	CCHE	0-0.5' CALICHE, medium brown, poorly sorted, sub-rounded grains, stained, no odor, dry.			
D	286	0.4	N			1		0.5-2' CALICHE, medium brown, medium grains, poorly sorted, sub-rounded grains, no stain, no odor, dry.			
D	<174	0.6	N	PH05	2	2					
						TD		Total Depth @ 2 ft bgs.			

 ENSOLUM								Sample Name: PH06		Date: 3/22/2023	
								Site Name: Remuda 500 CTB			
								Incident Number: NAPP2306544797			
								Job Number: 03C1558187			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.269889, -103.936688								Hole Diameter: NA		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE	0-0.5' CALICHE, medium brown, poorly sorted, sub-rounded grains, stained, no odor, dry.			
D	1,092	1.2	N	SS06	0.5	1		0.5-2' CALICHE, medium brown, medium grains, poorly sorted, sub-rounded grains, no stain, no odor, dry.			
D	246	0.3	N								
D	375	0.4	N	PH06	2	2					
						TD		Total Depth @ 2 ft bgs.			

 ENSOLUM								Sample Name: PH07		Date: 3/22/2023	
								Site Name: Remuda 500 CTB			
								Incident Number: NAPP2306544797			
								Job Number: 03C1558187			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.269769, -103.936634								Hole Diameter: NA		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	2,100	1.2	N	SS07	0.5	0	CCHE	0-0.5' CALICHE, medium brown, poorly sorted, sub-rounded grains, stained, no odor, dry.			
D	207	0.6	N			1		0.5-2' CALICHE, medium brown, medium grains, trace fine silt, poorly sorted, sub-rounded grains, no stain, no odor, dry.			
D	<174	0.5	N	PH07	2	2		Total Depth @ 2 ft bgs.			
						TD					



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 3/22/2023 3:04:42 PM

JOB DESCRIPTION

Remuda 500 CTB

SDG NUMBER 03C1558187

JOB NUMBER

890-4295-1

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
3/22/2023 3:04:42 PM

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

Client: Ensolum
Project/Site: Remuda 500 CTB

Laboratory Job ID: 890-4295-1
SDG: 03C1558187

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Definitions/Glossary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Qualifiers

GC VOA

Qualifier	Qualifier Description
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, high biased.
U	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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Job ID: 890-4295-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4295-1****Receipt**

The samples were received on 3/13/2023 4:44 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 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4295-1), SS02 (890-4295-2), SS03 (890-4295-3), SS04 (890-4295-4), SS05 (890-4295-5), SS06 (890-4295-6), SS07 (890-4295-7), SS08 (890-4295-8), SS09 (890-4295-9), SS10 (890-4295-10), SS11 (890-4295-11) and SS12 (890-4295-12).

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 surrogate recovery for the blank associated with preparation batch 880-48680 and analytical batch 880-48705 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-48680/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS12 (890-4295-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-48680 and analytical batch 880-48705 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS01

Lab Sample ID: 890-4295-1

Date Collected: 03/10/23 10:20

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402	mg/Kg		03/20/23 11:49	03/21/23 05:48	20
Toluene	<0.0402	U	0.0402	mg/Kg		03/20/23 11:49	03/21/23 05:48	20
Ethylbenzene	<0.0402	U	0.0402	mg/Kg		03/20/23 11:49	03/21/23 05:48	20
m-Xylene & p-Xylene	<0.0803	U	0.0803	mg/Kg		03/20/23 11:49	03/21/23 05:48	20
o-Xylene	<0.0402	U	0.0402	mg/Kg		03/20/23 11:49	03/21/23 05:48	20
Xylenes, Total	<0.0803	U	0.0803	mg/Kg		03/20/23 11:49	03/21/23 05:48	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/20/23 11:49	03/21/23 05:48	20
1,4-Difluorobenzene (Surr)	113		70 - 130	03/20/23 11:49	03/21/23 05:48	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0803	U	0.0803	mg/Kg			03/22/23 15:38	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			03/21/23 09:53	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	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 15:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/15/23 13:55	03/16/23 15:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	03/15/23 13:55	03/16/23 15:09	1
o-Terphenyl	110		70 - 130	03/15/23 13:55	03/16/23 15:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7720		49.8	mg/Kg			03/20/23 11:37	10

Client Sample ID: SS02

Lab Sample ID: 890-4295-2

Date Collected: 03/10/23 10:25

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0396	U	0.0396	mg/Kg		03/20/23 11:49	03/21/23 06:09	20
Toluene	<0.0396	U	0.0396	mg/Kg		03/20/23 11:49	03/21/23 06:09	20
Ethylbenzene	<0.0396	U	0.0396	mg/Kg		03/20/23 11:49	03/21/23 06:09	20
m-Xylene & p-Xylene	<0.0792	U	0.0792	mg/Kg		03/20/23 11:49	03/21/23 06:09	20
o-Xylene	<0.0396	U	0.0396	mg/Kg		03/20/23 11:49	03/21/23 06:09	20
Xylenes, Total	<0.0792	U	0.0792	mg/Kg		03/20/23 11:49	03/21/23 06:09	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/20/23 11:49	03/21/23 06:09	20

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS02

Lab Sample ID: 890-4295-2

Date Collected: 03/10/23 10:25

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	114		70 - 130	03/20/23 11:49	03/21/23 06:09	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0792	U	0.0792	mg/Kg			03/22/23 15:38	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			03/21/23 09:53	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	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 16:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/15/23 13:55	03/16/23 16:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 16:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			03/15/23 13:55	03/16/23 16:09	1
o-Terphenyl	120		70 - 130			03/15/23 13:55	03/16/23 16:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13900		100	mg/Kg			03/20/23 11:52	20

Client Sample ID: SS03

Lab Sample ID: 890-4295-3

Date Collected: 03/10/23 10:30

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 10:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 10:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 10:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/20/23 11:49	03/21/23 10:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 10:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/20/23 11:49	03/21/23 10:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	03/20/23 11:49	03/21/23 10:04	1
1,4-Difluorobenzene (Surr)	114		70 - 130	03/20/23 11:49	03/21/23 10:04	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			03/22/23 15:38	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			03/21/23 09:53	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS03

Lab Sample ID: 890-4295-3

Date Collected: 03/10/23 10:30

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 16:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/15/23 13:55	03/16/23 16:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 16:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			03/15/23 13:55	03/16/23 16:30	1
o-Terphenyl	121		70 - 130			03/15/23 13:55	03/16/23 16:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		25.2	mg/Kg			03/20/23 11:57	5

Client Sample ID: SS04

Lab Sample ID: 890-4295-4

Date Collected: 03/10/23 04:00

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 10:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 10:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 10:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/20/23 11:49	03/21/23 10:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 10:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/20/23 11:49	03/21/23 10:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			03/20/23 11:49	03/21/23 10:25	1
1,4-Difluorobenzene (Surr)	113		70 - 130			03/20/23 11:49	03/21/23 10:25	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			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	251		49.9	mg/Kg			03/21/23 09:53	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		03/15/23 13:55	03/16/23 16:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		03/15/23 13:55	03/16/23 16:52	1
Oil Range Organics (Over C28-C36)	251		49.9	mg/Kg		03/15/23 13:55	03/16/23 16:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			03/15/23 13:55	03/16/23 16:52	1
o-Terphenyl	129		70 - 130			03/15/23 13:55	03/16/23 16:52	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS04

Lab Sample ID: 890-4295-4

Date Collected: 03/10/23 04:00

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3310		25.3	mg/Kg			03/20/23 12:02	5

Client Sample ID: SS05

Lab Sample ID: 890-4295-5

Date Collected: 03/10/23 11:05

Matrix: Solid

Date Received: 03/13/23 16:44

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		03/20/23 11:49	03/21/23 10:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 10:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 10:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/20/23 11:49	03/21/23 10:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 10:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/20/23 11:49	03/21/23 10:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/20/23 11:49	03/21/23 10:45	1
1,4-Difluorobenzene (Surr)	110		70 - 130			03/20/23 11:49	03/21/23 10:45	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			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	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		03/15/23 13:55	03/16/23 17:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		03/15/23 13:55	03/16/23 17:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/15/23 13:55	03/16/23 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			03/15/23 13:55	03/16/23 17:13	1
o-Terphenyl	113		70 - 130			03/15/23 13:55	03/16/23 17:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1690		25.0	mg/Kg			03/20/23 12:07	5

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS06

Lab Sample ID: 890-4295-6

Date Collected: 03/10/23 11:10

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:49	03/21/23 11:06	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:49	03/21/23 11:06	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:49	03/21/23 11:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/20/23 11:49	03/21/23 11:06	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:49	03/21/23 11:06	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/20/23 11:49	03/21/23 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/20/23 11:49	03/21/23 11:06	1
1,4-Difluorobenzene (Surr)	109		70 - 130	03/20/23 11:49	03/21/23 11:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/21/23 09:53	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	<49.8	U	49.8	mg/Kg		03/15/23 13:55	03/16/23 17:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		03/15/23 13:55	03/16/23 17:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/15/23 13:55	03/16/23 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/15/23 13:55	03/16/23 17:35	1
o-Terphenyl	105		70 - 130	03/15/23 13:55	03/16/23 17:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1670		24.9	mg/Kg			03/20/23 12:23	5

Client Sample ID: SS07

Lab Sample ID: 890-4295-7

Date Collected: 03/10/23 11:15

Matrix: Solid

Date Received: 03/13/23 16:44

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		03/20/23 11:49	03/21/23 11:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 11:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 11:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/20/23 11:49	03/21/23 11:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 11:26	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/20/23 11:49	03/21/23 11:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/20/23 11:49	03/21/23 11:26	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS07

Lab Sample ID: 890-4295-7

Date Collected: 03/10/23 11:15

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	112		70 - 130	03/20/23 11:49	03/21/23 11:26	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	mg/Kg			03/22/23 15:38	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			03/21/23 09:53	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	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 17:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/15/23 13:55	03/16/23 17:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 17:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			03/15/23 13:55	03/16/23 17:57	1
o-Terphenyl	111		70 - 130			03/15/23 13:55	03/16/23 17:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1450		25.2	mg/Kg			03/20/23 12:28	5

Client Sample ID: SS08

Lab Sample ID: 890-4295-8

Date Collected: 03/10/23 11:40

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 11:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 11:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 11:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/20/23 11:49	03/21/23 11:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 11:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/20/23 11:49	03/21/23 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/20/23 11:49	03/21/23 11:47	1
1,4-Difluorobenzene (Surr)	112		70 - 130	03/20/23 11:49	03/21/23 11:47	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			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS08

Lab Sample ID: 890-4295-8

Date Collected: 03/10/23 11:40

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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		03/15/23 13:55	03/16/23 18:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		03/15/23 13:55	03/16/23 18:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/15/23 13:55	03/16/23 18:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/15/23 13:55	03/16/23 18:19	1
o-Terphenyl	115		70 - 130			03/15/23 13:55	03/16/23 18:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.6		4.96	mg/Kg			03/20/23 12:33	1

Client Sample ID: SS09

Lab Sample ID: 890-4295-9

Date Collected: 03/10/23 11:45

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 12:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 12:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 12:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/20/23 11:49	03/21/23 12:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 12:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/20/23 11:49	03/21/23 12:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/20/23 11:49	03/21/23 12:07	1
1,4-Difluorobenzene (Surr)	111		70 - 130			03/20/23 11:49	03/21/23 12:07	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			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	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		03/15/23 13:55	03/16/23 18:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		03/15/23 13:55	03/16/23 18:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/15/23 13:55	03/16/23 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			03/15/23 13:55	03/16/23 18:40	1
o-Terphenyl	115		70 - 130			03/15/23 13:55	03/16/23 18:40	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS09

Lab Sample ID: 890-4295-9

Date Collected: 03/10/23 11:45

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		4.95	mg/Kg			03/20/23 12:38	1

Client Sample ID: SS10

Lab Sample ID: 890-4295-10

Date Collected: 03/10/23 11:50

Matrix: Solid

Date Received: 03/13/23 16:44

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		03/20/23 11:49	03/21/23 12:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 12:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 12:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/20/23 11:49	03/21/23 12:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 12:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/20/23 11:49	03/21/23 12:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/20/23 11:49	03/21/23 12:28	1
1,4-Difluorobenzene (Surr)	113		70 - 130			03/20/23 11:49	03/21/23 12:28	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			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	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		03/15/23 13:55	03/16/23 19:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		03/15/23 13:55	03/16/23 19:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/15/23 13:55	03/16/23 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/15/23 13:55	03/16/23 19:01	1
o-Terphenyl	113		70 - 130			03/15/23 13:55	03/16/23 19:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		4.95	mg/Kg			03/20/23 12:43	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS11

Lab Sample ID: 890-4295-11

Date Collected: 03/10/23 11:55

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:49	03/21/23 12:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:49	03/21/23 12:48	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:49	03/21/23 12:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/20/23 11:49	03/21/23 12:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:49	03/21/23 12:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/20/23 11:49	03/21/23 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/20/23 11:49	03/21/23 12:48	1
1,4-Difluorobenzene (Surr)	113		70 - 130	03/20/23 11:49	03/21/23 12:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/22/23 15:38	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			03/21/23 09:53	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	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 19:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/15/23 13:55	03/16/23 19:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	03/15/23 13:55	03/16/23 19:23	1
o-Terphenyl	110		70 - 130	03/15/23 13:55	03/16/23 19:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.3		5.01	mg/Kg			03/20/23 12:48	1

Client Sample ID: SS12

Lab Sample ID: 890-4295-12

Date Collected: 03/10/23 12:00

Matrix: Solid

Date Received: 03/13/23 16:44

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		03/20/23 11:49	03/21/23 13:08	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/20/23 11:49	03/21/23 13:08	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/20/23 11:49	03/21/23 13:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/20/23 11:49	03/21/23 13:08	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/20/23 11:49	03/21/23 13:08	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/20/23 11:49	03/21/23 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/20/23 11:49	03/21/23 13:08	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS12

Lab Sample ID: 890-4295-12

Date Collected: 03/10/23 12:00

Matrix: Solid

Date Received: 03/13/23 16:44

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	113		70 - 130	03/20/23 11:49	03/21/23 13:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	455		49.9	mg/Kg			03/21/23 09:53	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		03/16/23 14:57	03/16/23 21:10	1
Diesel Range Organics (Over C10-C28)	404		49.9	mg/Kg		03/16/23 14:57	03/16/23 21:10	1
Oil Range Organics (Over C28-C36)	50.9		49.9	mg/Kg		03/16/23 14:57	03/16/23 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	03/16/23 14:57	03/16/23 21:10	1
o-Terphenyl	145	S1+	70 - 130	03/16/23 14:57	03/16/23 21:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.6		4.98	mg/Kg			03/20/23 13:03	1

Surrogate Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-26024-A-1-B MS	Matrix Spike	110	113
880-26024-A-1-C MSD	Matrix Spike Duplicate	102	114
890-4295-1	SS01	107	113
890-4295-2	SS02	108	114
890-4295-3	SS03	121	114
890-4295-4	SS04	113	113
890-4295-5	SS05	108	110
890-4295-6	SS06	106	109
890-4295-7	SS07	106	112
890-4295-8	SS08	109	112
890-4295-9	SS09	105	111
890-4295-10	SS10	108	113
890-4295-11	SS11	111	113
890-4295-12	SS12	108	113
LCS 880-48991/1-A	Lab Control Sample	104	112
LCSD 880-48991/2-A	Lab Control Sample Dup	107	111
MB 880-48991/5-A	Method Blank	98	106
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 Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-25962-A-21-B MS	Matrix Spike	112	117
880-25962-A-21-C MSD	Matrix Spike Duplicate	115	121
890-4295-1	SS01	95	110
890-4295-2	SS02	105	120
890-4295-3	SS03	104	121
890-4295-4	SS04	116	129
890-4295-5	SS05	97	113
890-4295-6	SS06	93	105
890-4295-7	SS07	96	111
890-4295-8	SS08	99	115
890-4295-9	SS09	103	115
890-4295-10	SS10	99	113
890-4295-11	SS11	97	110
890-4295-12	SS12	132 S1+	145 S1+
890-4295-12 MS	SS12	129	130
890-4295-12 MSD	SS12	113	115
LCS 880-48680/2-A	Lab Control Sample	119	134 S1+
LCS 880-48780/2-A	Lab Control Sample	110	123
LCSD 880-48680/3-A	Lab Control Sample Dup	94	111
LCSD 880-48780/3-A	Lab Control Sample Dup	108	120
MB 880-48680/1-A	Method Blank	119	142 S1+
MB 880-48780/1-A	Method Blank	109	129

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Surrogate Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48991/5-A

Matrix: Solid

Analysis Batch: 48961

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48991

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 02:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 02:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 02:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/20/23 11:49	03/21/23 02:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 02:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/20/23 11:49	03/21/23 02:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/20/23 11:49	03/21/23 02:36	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/20/23 11:49	03/21/23 02:36	1

Lab Sample ID: LCS 880-48991/1-A

Matrix: Solid

Analysis Batch: 48961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09859		mg/Kg		99	70 - 130
Toluene	0.100	0.1122		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.08586		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1673		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08513		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-48991/2-A

Matrix: Solid

Analysis Batch: 48961

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48991

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09737		mg/Kg		97	70 - 130	1	35
Toluene	0.100	0.1136		mg/Kg		114	70 - 130	1	35
Ethylbenzene	0.100	0.08534		mg/Kg		85	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1667		mg/Kg		83	70 - 130	0	35
o-Xylene	0.100	0.08544		mg/Kg		85	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-26024-A-1-B MS

Matrix: Solid

Analysis Batch: 48961

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48991

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.09019		mg/Kg		90	70 - 130
Toluene	<0.00199	U	0.0998	0.1061		mg/Kg		106	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

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

Lab Sample ID: 880-26024-A-1-B MS

Matrix: Solid

Analysis Batch: 48961

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48991

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.07582		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1466		mg/Kg		73	70 - 130
o-Xylene	<0.00199	U	0.0998	0.07463		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-26024-A-1-C MSD

Matrix: Solid

Analysis Batch: 48961

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48991

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09357		mg/Kg		93	70 - 130	4	35
Toluene	<0.00199	U	0.100	0.1053		mg/Kg		105	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.100	0.07659		mg/Kg		76	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1477		mg/Kg		74	70 - 130	1	35
o-Xylene	<0.00199	U	0.100	0.07399		mg/Kg		73	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

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

Lab Sample ID: MB 880-48680/1-A

Matrix: Solid

Analysis Batch: 48705

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48680

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 08:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 08:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/15/23 13:55	03/16/23 08:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	03/15/23 13:55	03/16/23 08:32	1
o-Terphenyl	142	S1+	70 - 130	03/15/23 13:55	03/16/23 08:32	1

Lab Sample ID: LCS 880-48680/2-A

Matrix: Solid

Analysis Batch: 48705

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	887.3		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	998.9		mg/Kg		100	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

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

Lab Sample ID: LCS 880-48680/2-A
Matrix: Solid
Analysis Batch: 48705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48680

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	134	S1+	70 - 130

Lab Sample ID: LCSD 880-48680/3-A
Matrix: Solid
Analysis Batch: 48705

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48680

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	957.8		mg/Kg		96	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	798.3	*1	mg/Kg		80	70 - 130	22	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-25962-A-21-B MS
Matrix: Solid
Analysis Batch: 48705

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	958.6		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *1	998	1024		mg/Kg		103	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 880-25962-A-21-C MSD
Matrix: Solid
Analysis Batch: 48705

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	992.1		mg/Kg		97	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1	999	1058		mg/Kg		106	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	121		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

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

Lab Sample ID: MB 880-48780/1-A

Matrix: Solid

Analysis Batch: 48705

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48780

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/16/23 14:57	03/16/23 20:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/16/23 14:57	03/16/23 20:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/16/23 14:57	03/16/23 20:06	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			03/16/23 14:57	03/16/23 20:06	1
o-Terphenyl	129		70 - 130			03/16/23 14:57	03/16/23 20:06	1

Lab Sample ID: LCS 880-48780/2-A

Matrix: Solid

Analysis Batch: 48705

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1129		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	1000	926.8		mg/Kg		93	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	110		70 - 130				
o-Terphenyl	123		70 - 130				

Lab Sample ID: LCSD 880-48780/3-A

Matrix: Solid

Analysis Batch: 48705

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48780

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1090		mg/Kg		109	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	902.1		mg/Kg		90	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	120		70 - 130						

Lab Sample ID: 890-4295-12 MS

Matrix: Solid

Analysis Batch: 48705

Client Sample ID: SS12

Prep Type: Total/NA

Prep Batch: 48780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1179		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	404		998	1258		mg/Kg		86	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

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

Lab Sample ID: 890-4295-12 MS

Matrix: Solid

Analysis Batch: 48705

Client Sample ID: SS12

Prep Type: Total/NA

Prep Batch: 48780

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

Lab Sample ID: 890-4295-12 MSD

Matrix: Solid

Analysis Batch: 48705

Client Sample ID: SS12

Prep Type: Total/NA

Prep Batch: 48780

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1009		mg/Kg		96	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	404		999	1119		mg/Kg		72	70 - 130	12	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	115		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48889/1-A

Matrix: Solid

Analysis Batch: 49132

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			03/20/23 11:22	1		

Lab Sample ID: LCS 880-48889/2-A

Matrix: Solid

Analysis Batch: 49132

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	257.3		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-48889/3-A

Matrix: Solid

Analysis Batch: 49132

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	255.2		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-4295-1 MS

Matrix: Solid

Analysis Batch: 49132

Client Sample ID: SS01

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	7720		2490	10170		mg/Kg		98	90 - 110		

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4295-1 MSD Matrix: Solid Analysis Batch: 49132										Client Sample ID: SS01 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	7720		2490	10150		mg/Kg		98	90 - 110	0	20	

Lab Sample ID: 890-4295-11 MS Matrix: Solid Analysis Batch: 49132										Client Sample ID: SS11 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	10.3		251	250.8		mg/Kg		96	90 - 110			

Lab Sample ID: 890-4295-11 MSD Matrix: Solid Analysis Batch: 49132										Client Sample ID: SS11 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	10.3		251	248.5		mg/Kg		95	90 - 110	1	20	

QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

GC VOA

Analysis Batch: 48961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4295-1	SS01	Total/NA	Solid	8021B	48991
890-4295-2	SS02	Total/NA	Solid	8021B	48991
890-4295-3	SS03	Total/NA	Solid	8021B	48991
890-4295-4	SS04	Total/NA	Solid	8021B	48991
890-4295-5	SS05	Total/NA	Solid	8021B	48991
890-4295-6	SS06	Total/NA	Solid	8021B	48991
890-4295-7	SS07	Total/NA	Solid	8021B	48991
890-4295-8	SS08	Total/NA	Solid	8021B	48991
890-4295-9	SS09	Total/NA	Solid	8021B	48991
890-4295-10	SS10	Total/NA	Solid	8021B	48991
890-4295-11	SS11	Total/NA	Solid	8021B	48991
890-4295-12	SS12	Total/NA	Solid	8021B	48991
MB 880-48991/5-A	Method Blank	Total/NA	Solid	8021B	48991
LCS 880-48991/1-A	Lab Control Sample	Total/NA	Solid	8021B	48991
LCSD 880-48991/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48991
880-26024-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	48991
880-26024-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48991

Prep Batch: 48991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4295-1	SS01	Total/NA	Solid	5035	
890-4295-2	SS02	Total/NA	Solid	5035	
890-4295-3	SS03	Total/NA	Solid	5035	
890-4295-4	SS04	Total/NA	Solid	5035	
890-4295-5	SS05	Total/NA	Solid	5035	
890-4295-6	SS06	Total/NA	Solid	5035	
890-4295-7	SS07	Total/NA	Solid	5035	
890-4295-8	SS08	Total/NA	Solid	5035	
890-4295-9	SS09	Total/NA	Solid	5035	
890-4295-10	SS10	Total/NA	Solid	5035	
890-4295-11	SS11	Total/NA	Solid	5035	
890-4295-12	SS12	Total/NA	Solid	5035	
MB 880-48991/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48991/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48991/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26024-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-26024-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4295-1	SS01	Total/NA	Solid	Total BTEX	
890-4295-2	SS02	Total/NA	Solid	Total BTEX	
890-4295-3	SS03	Total/NA	Solid	Total BTEX	
890-4295-4	SS04	Total/NA	Solid	Total BTEX	
890-4295-5	SS05	Total/NA	Solid	Total BTEX	
890-4295-6	SS06	Total/NA	Solid	Total BTEX	
890-4295-7	SS07	Total/NA	Solid	Total BTEX	
890-4295-8	SS08	Total/NA	Solid	Total BTEX	
890-4295-9	SS09	Total/NA	Solid	Total BTEX	
890-4295-10	SS10	Total/NA	Solid	Total BTEX	
890-4295-11	SS11	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

GC VOA (Continued)

Analysis Batch: 49220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4295-12	SS12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4295-1	SS01	Total/NA	Solid	8015NM Prep	
890-4295-2	SS02	Total/NA	Solid	8015NM Prep	
890-4295-3	SS03	Total/NA	Solid	8015NM Prep	
890-4295-4	SS04	Total/NA	Solid	8015NM Prep	
890-4295-5	SS05	Total/NA	Solid	8015NM Prep	
890-4295-6	SS06	Total/NA	Solid	8015NM Prep	
890-4295-7	SS07	Total/NA	Solid	8015NM Prep	
890-4295-8	SS08	Total/NA	Solid	8015NM Prep	
890-4295-9	SS09	Total/NA	Solid	8015NM Prep	
890-4295-10	SS10	Total/NA	Solid	8015NM Prep	
890-4295-11	SS11	Total/NA	Solid	8015NM Prep	
MB 880-48680/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48680/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48680/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25962-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25962-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4295-1	SS01	Total/NA	Solid	8015B NM	48680
890-4295-2	SS02	Total/NA	Solid	8015B NM	48680
890-4295-3	SS03	Total/NA	Solid	8015B NM	48680
890-4295-4	SS04	Total/NA	Solid	8015B NM	48680
890-4295-5	SS05	Total/NA	Solid	8015B NM	48680
890-4295-6	SS06	Total/NA	Solid	8015B NM	48680
890-4295-7	SS07	Total/NA	Solid	8015B NM	48680
890-4295-8	SS08	Total/NA	Solid	8015B NM	48680
890-4295-9	SS09	Total/NA	Solid	8015B NM	48680
890-4295-10	SS10	Total/NA	Solid	8015B NM	48680
890-4295-11	SS11	Total/NA	Solid	8015B NM	48680
890-4295-12	SS12	Total/NA	Solid	8015B NM	48780
MB 880-48680/1-A	Method Blank	Total/NA	Solid	8015B NM	48680
MB 880-48780/1-A	Method Blank	Total/NA	Solid	8015B NM	48780
LCS 880-48680/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48680
LCS 880-48780/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48780
LCSD 880-48680/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48680
LCSD 880-48780/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48780
880-25962-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48680
880-25962-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48680
890-4295-12 MS	SS12	Total/NA	Solid	8015B NM	48780
890-4295-12 MSD	SS12	Total/NA	Solid	8015B NM	48780

Prep Batch: 48780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4295-12	SS12	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

GC Semi VOA (Continued)

Prep Batch: 48780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48780/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48780/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48780/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4295-12 MS	SS12	Total/NA	Solid	8015NM Prep	
890-4295-12 MSD	SS12	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4295-1	SS01	Total/NA	Solid	8015 NM	
890-4295-2	SS02	Total/NA	Solid	8015 NM	
890-4295-3	SS03	Total/NA	Solid	8015 NM	
890-4295-4	SS04	Total/NA	Solid	8015 NM	
890-4295-5	SS05	Total/NA	Solid	8015 NM	
890-4295-6	SS06	Total/NA	Solid	8015 NM	
890-4295-7	SS07	Total/NA	Solid	8015 NM	
890-4295-8	SS08	Total/NA	Solid	8015 NM	
890-4295-9	SS09	Total/NA	Solid	8015 NM	
890-4295-10	SS10	Total/NA	Solid	8015 NM	
890-4295-11	SS11	Total/NA	Solid	8015 NM	
890-4295-12	SS12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4295-1	SS01	Soluble	Solid	DI Leach	
890-4295-2	SS02	Soluble	Solid	DI Leach	
890-4295-3	SS03	Soluble	Solid	DI Leach	
890-4295-4	SS04	Soluble	Solid	DI Leach	
890-4295-5	SS05	Soluble	Solid	DI Leach	
890-4295-6	SS06	Soluble	Solid	DI Leach	
890-4295-7	SS07	Soluble	Solid	DI Leach	
890-4295-8	SS08	Soluble	Solid	DI Leach	
890-4295-9	SS09	Soluble	Solid	DI Leach	
890-4295-10	SS10	Soluble	Solid	DI Leach	
890-4295-11	SS11	Soluble	Solid	DI Leach	
890-4295-12	SS12	Soluble	Solid	DI Leach	
MB 880-48889/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48889/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48889/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4295-1 MS	SS01	Soluble	Solid	DI Leach	
890-4295-1 MSD	SS01	Soluble	Solid	DI Leach	
890-4295-11 MS	SS11	Soluble	Solid	DI Leach	
890-4295-11 MSD	SS11	Soluble	Solid	DI Leach	

Analysis Batch: 49132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4295-1	SS01	Soluble	Solid	300.0	48889
890-4295-2	SS02	Soluble	Solid	300.0	48889
890-4295-3	SS03	Soluble	Solid	300.0	48889
890-4295-4	SS04	Soluble	Solid	300.0	48889

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QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

HPLC/IC (Continued)

Analysis Batch: 49132 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4295-5	SS05	Soluble	Solid	300.0	48889
890-4295-6	SS06	Soluble	Solid	300.0	48889
890-4295-7	SS07	Soluble	Solid	300.0	48889
890-4295-8	SS08	Soluble	Solid	300.0	48889
890-4295-9	SS09	Soluble	Solid	300.0	48889
890-4295-10	SS10	Soluble	Solid	300.0	48889
890-4295-11	SS11	Soluble	Solid	300.0	48889
890-4295-12	SS12	Soluble	Solid	300.0	48889
MB 880-48889/1-A	Method Blank	Soluble	Solid	300.0	48889
LCS 880-48889/2-A	Lab Control Sample	Soluble	Solid	300.0	48889
LCSD 880-48889/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48889
890-4295-1 MS	SS01	Soluble	Solid	300.0	48889
890-4295-1 MSD	SS01	Soluble	Solid	300.0	48889
890-4295-11 MS	SS11	Soluble	Solid	300.0	48889
890-4295-11 MSD	SS11	Soluble	Solid	300.0	48889

Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS01
Date Collected: 03/10/23 10:20
Date Received: 03/13/23 16:44

Lab Sample ID: 890-4295-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	48961	03/21/23 05:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48680	03/15/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/16/23 15:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48889	03/18/23 15:22	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	49132	03/20/23 11:37	SMC	EET MID

Client Sample ID: SS02
Date Collected: 03/10/23 10:25
Date Received: 03/13/23 16:44

Lab Sample ID: 890-4295-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	48961	03/21/23 06:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48680	03/15/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/16/23 16:09	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48889	03/18/23 15:22	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	49132	03/20/23 11:52	SMC	EET MID

Client Sample ID: SS03
Date Collected: 03/10/23 10:30
Date Received: 03/13/23 16:44

Lab Sample ID: 890-4295-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 10:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48680	03/15/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/16/23 16:30	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48889	03/18/23 15:22	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49132	03/20/23 11:57	SMC	EET MID

Client Sample ID: SS04
Date Collected: 03/10/23 04:00
Date Received: 03/13/23 16:44

Lab Sample ID: 890-4295-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 10:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS04**Lab Sample ID: 890-4295-4****Date Collected: 03/10/23 04:00****Matrix: Solid****Date Received: 03/13/23 16:44**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48680	03/15/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/16/23 16:52	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	48889	03/18/23 15:22	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49132	03/20/23 12:02	SMC	EET MID

Client Sample ID: SS05**Lab Sample ID: 890-4295-5****Date Collected: 03/10/23 11:05****Matrix: Solid****Date Received: 03/13/23 16:44**

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	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 10:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48680	03/15/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/16/23 17:13	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48889	03/18/23 15:22	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49132	03/20/23 12:07	SMC	EET MID

Client Sample ID: SS06**Lab Sample ID: 890-4295-6****Date Collected: 03/10/23 11:10****Matrix: Solid****Date Received: 03/13/23 16:44**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 11:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.031 g	10 mL	48680	03/15/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/16/23 17:35	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48889	03/18/23 15:22	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49132	03/20/23 12:23	SMC	EET MID

Client Sample ID: SS07**Lab Sample ID: 890-4295-7****Date Collected: 03/10/23 11:15****Matrix: Solid****Date Received: 03/13/23 16:44**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 11:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48680	03/15/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/16/23 17:57	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS07**Lab Sample ID: 890-4295-7****Date Collected: 03/10/23 11:15****Matrix: Solid****Date Received: 03/13/23 16:44**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	48889	03/18/23 15:22	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49132	03/20/23 12:28	SMC	EET MID

Client Sample ID: SS08**Lab Sample ID: 890-4295-8****Date Collected: 03/10/23 11:40****Matrix: Solid****Date Received: 03/13/23 16:44**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 11:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48680	03/15/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/16/23 18:19	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48889	03/18/23 15:22	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49132	03/20/23 12:33	SMC	EET MID

Client Sample ID: SS09**Lab Sample ID: 890-4295-9****Date Collected: 03/10/23 11:45****Matrix: Solid****Date Received: 03/13/23 16:44**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 12:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48680	03/15/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/16/23 18:40	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48889	03/18/23 15:22	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49132	03/20/23 12:38	SMC	EET MID

Client Sample ID: SS10**Lab Sample ID: 890-4295-10****Date Collected: 03/10/23 11:50****Matrix: Solid****Date Received: 03/13/23 16:44**

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	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 12:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48680	03/15/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/16/23 19:01	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48889	03/18/23 15:22	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49132	03/20/23 12:43	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Client Sample ID: SS11
Date Collected: 03/10/23 11:55
Date Received: 03/13/23 16:44

Lab Sample ID: 890-4295-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 12:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48680	03/15/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/16/23 19:23	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48889	03/18/23 15:22	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49132	03/20/23 12:48	SMC	EET MID

Client Sample ID: SS12
Date Collected: 03/10/23 12:00
Date Received: 03/13/23 16:44

Lab Sample ID: 890-4295-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48780	03/16/23 14:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/16/23 21:10	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48889	03/18/23 15:22	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49132	03/20/23 13:03	SMC	EET MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
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Method Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

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 500 CTB

Job ID: 890-4295-1
SDG: 03C1558187

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4295-1	SS01	Solid	03/10/23 10:20	03/13/23 16:44	0.5
890-4295-2	SS02	Solid	03/10/23 10:25	03/13/23 16:44	0.5
890-4295-3	SS03	Solid	03/10/23 10:30	03/13/23 16:44	0.5
890-4295-4	SS04	Solid	03/10/23 04:00	03/13/23 16:44	0.5
890-4295-5	SS05	Solid	03/10/23 11:05	03/13/23 16:44	0.5
890-4295-6	SS06	Solid	03/10/23 11:10	03/13/23 16:44	0.5
890-4295-7	SS07	Solid	03/10/23 11:15	03/13/23 16:44	0.5
890-4295-8	SS08	Solid	03/10/23 11:40	03/13/23 16:44	0.5
890-4295-9	SS09	Solid	03/10/23 11:45	03/13/23 16:44	0.5
890-4295-10	SS10	Solid	03/10/23 11:50	03/13/23 16:44	0.5
890-4295-11	SS11	Solid	03/10/23 11:55	03/13/23 16:44	0.5
890-4295-12	SS12	Solid	03/10/23 12:00	03/13/23 16:44	0.5



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 503-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7350, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Ben Belil	Bill to: (if different)	Garrett Green
Company Name:	Ensolum LLC	Company Name:	XTO Energy
Address:	3122 National Parks HWY	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	970 319 4304	Email:	Garrett.Green@XenqMobile.com

Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: _____

Project Name:	Remuda 500 CTB	Turn Around	☒ Routine ☐ Rush
Project Number:	0361558187	Pre-Code	
Project Location:	52.20994 -103.93024	Due Date:	
Sample's Name:	Marlana O'Dell	TAI starts the day received by the lab, if received by 4:30pm	
P.O. #:		Wet Ice:	☒ Yes ☐ No
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☐ No	Thermometer ID:	7710007
Samples Received Intact:	☒ Yes ☐ No	Correction Factor:	-0.3
Cooler Custody Seals:	☒ Yes ☐ No	Temperature Reading:	21.8 C / 71.2 F
Sample Custody Seals:	☒ Yes ☐ No	Corrected Temperature:	21.5 C / 70.7 F
Total Containers:			



890-4295 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time	Depth	Grab/Comp	# of Cont	Parameters	Preservative Codes	Sample Comments
SS01	S	03/29/23	10:20	0.5'	G	1	Chlorides (EPA: 300.0)	None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN NaOH: Na	Incident #: NADP2300541797 Cost Center: 1001001001
SS02			10:25				BTEX		
SS03			10:30				TPH		
SS04			10:40						
SS05			11:05						
SS06			11:10						
SS07			11:15						
SS08			11:40						
SS09			11:45						
SS10			11:50						

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 Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TGLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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 \$35.00 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.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
M. O'Dell	Cee Wyp	3.13.23 1644			



Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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

Chain of Custody

Work Order No:

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Page 2 of 2

Project Manager:	Ben Bell	Bill to: (if different)	Garrett Green
Company Name:	ENSURUM LLC	Company Name:	XTO Energy
Address:	3122 National Park HWY	Address:	3104 E Greer St
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	Carlsbad NM 88220
Phone:	9703194304	Email:	Garrett.Green@xtoenergy.com

Work Order Comments				
Program:	UST/PSI ☐	PRP ☐	Brownfields ☐	RRC ☐ Superfund ☐
State of Project:				
Reporting:	Level II ☐	Level III ☐	PST/UST ☐	TRRP ☐ Level IV ☐
Deliverables:	EDD ☐	Adapt ☐	Other:	

Project Name:	Remuda 500 GB	Turn Around	
Project Number:	03CA558187	☒ Routine	☐ Rush
Project Location:	32.20094, -70.93024	Due Date:	
Sampler's Name:	Mandana D'El	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet/ice:	Yes	No
Samples Received Intact:	Yes	No	Thermometer ID:			
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:		
Sample Custody Seals:	Yes	No	N/A	Temperature Reading:		
Total Containers:				Corrected Temperature:		

ANALYSIS REQUEST										Preservative Codes	
Parameters	Pres. Code										
icides (EPA:300.0)										None: NO	DI Water: H ₂ O
EX										Cool: Cool	MeOH: Me
H										HCL: HC	HNO ₃ : HN
										H ₂ SO ₄ : H ₂	NaOH: Na
										H ₃ PO ₄ : HP	
										NaHSO ₄ : NABIS	
										Na ₂ S ₂ O ₅ : NaSO ₃	
										Zn Acetate+NaOH: Zn	
										NaOH+Ascorbic Acid: S APC	

[illegible]

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 SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
		Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document (Inurement) of samples constitutes a valid purchase order from client company to Eurofins Xeno. Its offices and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$355.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
M. O'Dair	Joe Gaf	3.18.23 16:44			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4295-1

SDG Number: 03C1558187

Login Number: 4295

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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.	N/A	CHECK NCM
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4295-1

SDG Number: 03C1558187

Login Number: 4295

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 03/15/23 11:19 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 4/3/2023 4:23:14 PM

JOB DESCRIPTION

Remuda 500 CTB
SDG NUMBER 03C1558187

JOB NUMBER

890-4387-1

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
4/3/2023 4:23:14 PM

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

Client: Ensolum
Project/Site: Remuda 500 CTB

Laboratory Job ID: 890-4387-1
SDG: 03C1558187

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Definitions/Glossary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Job ID: 890-4387-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4387-1****Receipt**

The samples were received on 3/22/2023 3:02 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 1.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-4387-1), PH02 (890-4387-2), PH03 (890-4387-3), PH04 (890-4387-4), PH05 (890-4387-5), PH06 (890-4387-6) and PH07 (890-4387-7).

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 surrogate recovery for the blank associated with preparation batch 880-49712 and analytical batch 880-49689 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-49712/2-A) and (LCSD 880-49712/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4387-A-7-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: An incorrect volume of spiking solution was inadvertently added to the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with preparation batch 880-49712 and analytical batch 880-49689. MS/MSD will show recovery for the batch.

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 for preparation batch 880-50009 and 880-50009 and analytical batch 880-50058 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. PH01 (890-4387-1), PH02 (890-4387-2), PH03 (890-4387-3), PH04 (890-4387-4), PH05 (890-4387-5), PH06 (890-4387-6) and PH07 (890-4387-7)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50009 and analytical batch 880-50058 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. (890-4390-A-1-E), (890-4390-A-1-F MS) and (890-4390-A-1-G MSD)

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

Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Client Sample ID: PH01

Lab Sample ID: 890-4387-1

Date Collected: 03/22/23 11:05

Matrix: Solid

Date Received: 03/22/23 15:02

Sample Depth: 2.0

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		03/30/23 12:57	04/01/23 00:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 00:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 00:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/30/23 12:57	04/01/23 00:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 00:48	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/30/23 12:57	04/01/23 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/30/23 12:57	04/01/23 00:48	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/30/23 12:57	04/01/23 00:48	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			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/29/23 12:01	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		03/27/23 16:21	03/28/23 18:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/27/23 16:21	03/28/23 18:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/27/23 16:21	03/28/23 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	03/27/23 16:21	03/28/23 18:48	1
o-Terphenyl	104		70 - 130	03/27/23 16:21	03/28/23 18:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4020		25.1	mg/Kg			03/31/23 23:19	5

Client Sample ID: PH02

Lab Sample ID: 890-4387-2

Date Collected: 03/22/23 12:15

Matrix: Solid

Date Received: 03/22/23 15:02

Sample Depth: 2.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/30/23 12:57	04/01/23 01:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/30/23 12:57	04/01/23 01:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/30/23 12:57	04/01/23 01:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/30/23 12:57	04/01/23 01:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/30/23 12:57	04/01/23 01:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/30/23 12:57	04/01/23 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/30/23 12:57	04/01/23 01:08	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Client Sample ID: PH02

Lab Sample ID: 890-4387-2

Date Collected: 03/22/23 12:15

Matrix: Solid

Date Received: 03/22/23 15:02

Sample Depth: 2.0

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	03/30/23 12:57	04/01/23 01:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/03/23 16:44	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			03/29/23 12:01	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	<50.0	U	50.0	mg/Kg		03/27/23 16:21	03/28/23 19:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/27/23 16:21	03/28/23 19:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/27/23 16:21	03/28/23 19:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			03/27/23 16:21	03/28/23 19:09	1
o-Terphenyl	102		70 - 130			03/27/23 16:21	03/28/23 19:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2050		25.1	mg/Kg			03/31/23 23:24	5

Client Sample ID: PH03

Lab Sample ID: 890-4387-3

Date Collected: 03/22/23 12:35

Matrix: Solid

Date Received: 03/22/23 15:02

Sample Depth: 2.0

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		03/30/23 12:57	04/01/23 01:28	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/30/23 12:57	04/01/23 01:28	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/30/23 12:57	04/01/23 01:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/30/23 12:57	04/01/23 01:28	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/30/23 12:57	04/01/23 01:28	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/30/23 12:57	04/01/23 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/30/23 12:57	04/01/23 01:28	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/30/23 12:57	04/01/23 01:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/29/23 12:01	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Client Sample ID: PH03

Lab Sample ID: 890-4387-3

Date Collected: 03/22/23 12:35

Matrix: Solid

Date Received: 03/22/23 15:02

Sample Depth: 2.0

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		03/27/23 16:21	03/28/23 19:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/27/23 16:21	03/28/23 19:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/27/23 16:21	03/28/23 19:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			03/27/23 16:21	03/28/23 19:29	1
o-Terphenyl	106		70 - 130			03/27/23 16:21	03/28/23 19:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		4.97	mg/Kg			03/31/23 23:38	1

Client Sample ID: PH04

Lab Sample ID: 890-4387-4

Date Collected: 03/22/23 12:45

Matrix: Solid

Date Received: 03/22/23 15:02

Sample Depth: 2.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/30/23 12:57	04/01/23 01:49	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/30/23 12:57	04/01/23 01:49	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/30/23 12:57	04/01/23 01:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/30/23 12:57	04/01/23 01:49	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/30/23 12:57	04/01/23 01:49	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/30/23 12:57	04/01/23 01:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			03/30/23 12:57	04/01/23 01:49	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/30/23 12:57	04/01/23 01:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/29/23 12:01	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		03/27/23 16:21	03/28/23 19:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/27/23 16:21	03/28/23 19:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/27/23 16:21	03/28/23 19:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			03/27/23 16:21	03/28/23 19:50	1
o-Terphenyl	95		70 - 130			03/27/23 16:21	03/28/23 19:50	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Client Sample ID: PH04

Lab Sample ID: 890-4387-4

Date Collected: 03/22/23 12:45

Matrix: Solid

Date Received: 03/22/23 15:02

Sample Depth: 2.0

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		4.96	mg/Kg			03/31/23 23:42	1

Client Sample ID: PH05

Lab Sample ID: 890-4387-5

Date Collected: 03/22/23 13:05

Matrix: Solid

Date Received: 03/22/23 15:02

Sample Depth: 2.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/30/23 12:57	04/01/23 02:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/30/23 12:57	04/01/23 02:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/30/23 12:57	04/01/23 02:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/30/23 12:57	04/01/23 02:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/30/23 12:57	04/01/23 02:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/30/23 12:57	04/01/23 02:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			03/30/23 12:57	04/01/23 02:09	1
1,4-Difluorobenzene (Surr)	104		70 - 130			03/30/23 12:57	04/01/23 02:09	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			04/03/23 16:44	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			03/29/23 12:01	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	<50.0	U	50.0	mg/Kg		03/27/23 16:21	03/28/23 20:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/27/23 16:21	03/28/23 20:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/27/23 16:21	03/28/23 20:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			03/27/23 16:21	03/28/23 20:10	1
o-Terphenyl	108		70 - 130			03/27/23 16:21	03/28/23 20:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	271		4.96	mg/Kg			03/31/23 23:47	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Client Sample ID: PH06

Lab Sample ID: 890-4387-6

Date Collected: 03/22/23 13:15

Matrix: Solid

Date Received: 03/22/23 15:02

Sample Depth: 2.0

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		03/30/23 12:57	04/01/23 02:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 02:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 02:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/30/23 12:57	04/01/23 02:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 02:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/30/23 12:57	04/01/23 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/30/23 12:57	04/01/23 02:30	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/30/23 12:57	04/01/23 02:30	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			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/29/23 12:01	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		03/27/23 16:21	03/28/23 20:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/27/23 16:21	03/28/23 20:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/27/23 16:21	03/28/23 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	03/27/23 16:21	03/28/23 20:31	1
o-Terphenyl	104		70 - 130	03/27/23 16:21	03/28/23 20:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	244		5.04	mg/Kg			03/31/23 23:51	1

Client Sample ID: PH07

Lab Sample ID: 890-4387-7

Date Collected: 03/22/23 13:30

Matrix: Solid

Date Received: 03/22/23 15:02

Sample Depth: 2.0

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		03/30/23 12:57	04/01/23 02:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 02:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 02:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/30/23 12:57	04/01/23 02:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 02:50	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/30/23 12:57	04/01/23 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/30/23 12:57	04/01/23 02:50	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Client Sample ID: PH07

Lab Sample ID: 890-4387-7

Date Collected: 03/22/23 13:30

Matrix: Solid

Date Received: 03/22/23 15:02

Sample Depth: 2.0

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	03/30/23 12:57	04/01/23 02:50	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	mg/Kg			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/29/23 14:59	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		03/28/23 10:11	03/28/23 22:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		03/28/23 10:11	03/28/23 22:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/28/23 10:11	03/28/23 22:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/28/23 10:11	03/28/23 22:47	1
o-Terphenyl	120		70 - 130			03/28/23 10:11	03/28/23 22:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		5.05	mg/Kg			03/31/23 23:56	1

Surrogate Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4387-1	PH01	98	105
890-4387-1 MS	PH01	108	108
890-4387-1 MSD	PH01	106	111
890-4387-2	PH02	105	105
890-4387-3	PH03	106	107
890-4387-4	PH04	112	103
890-4387-5	PH05	104	104
890-4387-6	PH06	107	108
890-4387-7	PH07	102	106
LCS 880-49940/1-A	Lab Control Sample	99	109
LCSD 880-49940/2-A	Lab Control Sample Dup	98	107
MB 880-49940/5-A	Method Blank	94	101
MB 880-50015/8	Method Blank	89	104
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 Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-26265-A-1-B MS	Matrix Spike	95	77
880-26265-A-1-C MSD	Matrix Spike Duplicate	94	77
890-4387-1	PH01	113	104
890-4387-2	PH02	111	102
890-4387-3	PH03	114	106
890-4387-4	PH04	101	95
890-4387-5	PH05	117	108
890-4387-6	PH06	114	104
890-4387-7	PH07	99	120
890-4387-7 MS	PH07	127	135 S1+
890-4387-7 MSD	PH07	116	123
LCS 880-49659/2-A	Lab Control Sample	99	88
LCS 880-49712/2-A	Lab Control Sample	139 S1+	165 S1+
LCSD 880-49659/3-A	Lab Control Sample Dup	87	78
LCSD 880-49712/3-A	Lab Control Sample Dup	127	149 S1+
MB 880-49659/1-A	Method Blank	109	105
MB 880-49712/1-A	Method Blank	124	153 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49940/5-A

Matrix: Solid

Analysis Batch: 50015

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49940

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/30/23 12:57	04/01/23 00:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/30/23 12:57	04/01/23 00:19	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/30/23 12:57	04/01/23 00:19	1

Lab Sample ID: LCS 880-49940/1-A

Matrix: Solid

Analysis Batch: 50015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09687		mg/Kg		96	70 - 130
Toluene	0.101	0.09476		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.08711		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.201	0.1728		mg/Kg		86	70 - 130
o-Xylene	0.101	0.08770		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-49940/2-A

Matrix: Solid

Analysis Batch: 50015

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49940

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1056		mg/Kg		105	70 - 130	9	35
Toluene	0.101	0.1031		mg/Kg		103	70 - 130	8	35
Ethylbenzene	0.100	0.09544		mg/Kg		95	70 - 130	9	35
m-Xylene & p-Xylene	0.201	0.1882		mg/Kg		94	70 - 130	9	35
o-Xylene	0.101	0.09492		mg/Kg		94	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-4387-1 MS

Matrix: Solid

Analysis Batch: 50015

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 49940

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09185		mg/Kg		92	70 - 130
Toluene	<0.00200	U	0.100	0.09036		mg/Kg		90	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

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

Lab Sample ID: 890-4387-1 MS

Matrix: Solid

Analysis Batch: 50015

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 49940

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08249		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1619		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.100	0.08284		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-4387-1 MSD

Matrix: Solid

Analysis Batch: 50015

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 49940

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.09059		mg/Kg		90	70 - 130	1	35
Toluene	<0.00200	U	0.101	0.08686		mg/Kg		86	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.101	0.07991		mg/Kg		79	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1553		mg/Kg		77	70 - 130	4	35
o-Xylene	<0.00200	U	0.101	0.07923		mg/Kg		79	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: MB 880-50015/8

Matrix: Solid

Analysis Batch: 50015

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			03/31/23 12:43	1
Toluene	<0.00200	U	0.00200	mg/Kg			03/31/23 12:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			03/31/23 12:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			03/31/23 12:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			03/31/23 12:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			03/31/23 12:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130		03/31/23 12:43	1
1,4-Difluorobenzene (Surr)	104		70 - 130		03/31/23 12:43	1

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

Lab Sample ID: MB 880-49659/1-A

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49659

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/27/23 16:21	03/28/23 09:44	1

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

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

Lab Sample ID: MB 880-49659/1-A

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49659

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/27/23 16:21	03/28/23 09:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/27/23 16:21	03/28/23 09:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			03/27/23 16:21	03/28/23 09:44	1
o-Terphenyl	105		70 - 130			03/27/23 16:21	03/28/23 09:44	1

Lab Sample ID: LCS 880-49659/2-A

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	963.9		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	956.4		mg/Kg		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	99		70 - 130				
o-Terphenyl	88		70 - 130				

Lab Sample ID: LCSD 880-49659/3-A

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49659

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	810.8		mg/Kg		81	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	842.5		mg/Kg		84	70 - 130	13	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	87		70 - 130						
o-Terphenyl	78		70 - 130						

Lab Sample ID: 880-26265-A-1-B MS

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1041		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	767.5		mg/Kg		75	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	95		70 - 130						
o-Terphenyl	77		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

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

Lab Sample ID: 880-26265-A-1-C MSD

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49659

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1046		mg/Kg		102	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	754.3		mg/Kg		74	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	77		70 - 130								

Lab Sample ID: MB 880-49712/1-A

Matrix: Solid

Analysis Batch: 49689

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49712

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/28/23 10:11	03/28/23 21:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/28/23 10:11	03/28/23 21:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/23 10:11	03/28/23 21:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			03/28/23 10:11	03/28/23 21:43	1
o-Terphenyl	153	S1+	70 - 130			03/28/23 10:11	03/28/23 21:43	1

Lab Sample ID: LCS 880-49712/2-A

Matrix: Solid

Analysis Batch: 49689

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1940	*+	mg/Kg		194	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	2086	*+	mg/Kg		209	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane	139	S1+	70 - 130					
o-Terphenyl	165	S1+	70 - 130					

Lab Sample ID: LCSD 880-49712/3-A

Matrix: Solid

Analysis Batch: 49689

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49712

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1829	*+	mg/Kg		183	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1842	*+	mg/Kg		184	70 - 130	12	20

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

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

Lab Sample ID: LCSD 880-49712/3-A

Matrix: Solid

Analysis Batch: 49689

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49712

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	149	S1+	70 - 130

Lab Sample ID: 890-4387-7 MS

Matrix: Solid

Analysis Batch: 49689

Client Sample ID: PH07

Prep Type: Total/NA

Prep Batch: 49712

	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 **	998	1168		mg/Kg		114	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U **	998	1219		mg/Kg		120	70 - 130	
Surrogate	%Recovery	Qualifier	Limits	MS	MS					
1-Chlorooctane	127		70 - 130							
o-Terphenyl	135	S1+	70 - 130							

Lab Sample ID: 890-4387-7 MSD

Matrix: Solid

Analysis Batch: 49689

Client Sample ID: PH07

Prep Type: Total/NA

Prep Batch: 49712

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	999	1099		mg/Kg		107	70 - 130	6	20	
Diesel Range Organics (Over C10-C28)	<49.9	U **	999	1195		mg/Kg		118	70 - 130	2	20	
Surrogate	%Recovery	Qualifier	Limits	MSD	MSD							
1-Chlorooctane	116		70 - 130									
o-Terphenyl	123		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50009/1-A

Matrix: Solid

Analysis Batch: 50058

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac	
Chloride	<5.00	U	5.00	mg/Kg			03/31/23 22:43		1	

Lab Sample ID: LCS 880-50009/2-A

Matrix: Solid

Analysis Batch: 50058

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	254.8		mg/Kg		102	90 - 110		

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-50009/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 50058											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	249.9		mg/Kg		100	90 - 110	2	20

Lab Sample ID: 890-4390-A-1-F MS				Client Sample ID: Matrix Spike							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 50058											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4470	F1	1260	5322	F1	mg/Kg		68	90 - 110		

Lab Sample ID: 890-4390-A-1-G MSD				Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 50058											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4470	F1	1260	5345	F1	mg/Kg		70	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

GC VOA

Prep Batch: 49940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4387-1	PH01	Total/NA	Solid	5035	
890-4387-2	PH02	Total/NA	Solid	5035	
890-4387-3	PH03	Total/NA	Solid	5035	
890-4387-4	PH04	Total/NA	Solid	5035	
890-4387-5	PH05	Total/NA	Solid	5035	
890-4387-6	PH06	Total/NA	Solid	5035	
890-4387-7	PH07	Total/NA	Solid	5035	
MB 880-49940/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49940/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49940/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4387-1 MS	PH01	Total/NA	Solid	5035	
890-4387-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 50015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4387-1	PH01	Total/NA	Solid	8021B	49940
890-4387-2	PH02	Total/NA	Solid	8021B	49940
890-4387-3	PH03	Total/NA	Solid	8021B	49940
890-4387-4	PH04	Total/NA	Solid	8021B	49940
890-4387-5	PH05	Total/NA	Solid	8021B	49940
890-4387-6	PH06	Total/NA	Solid	8021B	49940
890-4387-7	PH07	Total/NA	Solid	8021B	49940
MB 880-49940/5-A	Method Blank	Total/NA	Solid	8021B	49940
MB 880-50015/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-49940/1-A	Lab Control Sample	Total/NA	Solid	8021B	49940
LCSD 880-49940/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49940
890-4387-1 MS	PH01	Total/NA	Solid	8021B	49940
890-4387-1 MSD	PH01	Total/NA	Solid	8021B	49940

Analysis Batch: 50260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4387-1	PH01	Total/NA	Solid	Total BTEX	
890-4387-2	PH02	Total/NA	Solid	Total BTEX	
890-4387-3	PH03	Total/NA	Solid	Total BTEX	
890-4387-4	PH04	Total/NA	Solid	Total BTEX	
890-4387-5	PH05	Total/NA	Solid	Total BTEX	
890-4387-6	PH06	Total/NA	Solid	Total BTEX	
890-4387-7	PH07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4387-1	PH01	Total/NA	Solid	8015NM Prep	
890-4387-2	PH02	Total/NA	Solid	8015NM Prep	
890-4387-3	PH03	Total/NA	Solid	8015NM Prep	
890-4387-4	PH04	Total/NA	Solid	8015NM Prep	
890-4387-5	PH05	Total/NA	Solid	8015NM Prep	
890-4387-6	PH06	Total/NA	Solid	8015NM Prep	
MB 880-49659/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49659/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

GC Semi VOA (Continued)

Prep Batch: 49659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-49659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26265-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26265-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4387-7	PH07	Total/NA	Solid	8015B NM	49712
MB 880-49712/1-A	Method Blank	Total/NA	Solid	8015B NM	49712
LCS 880-49712/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49712
LCSD 880-49712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49712
890-4387-7 MS	PH07	Total/NA	Solid	8015B NM	49712
890-4387-7 MSD	PH07	Total/NA	Solid	8015B NM	49712

Analysis Batch: 49696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4387-1	PH01	Total/NA	Solid	8015B NM	49659
890-4387-2	PH02	Total/NA	Solid	8015B NM	49659
890-4387-3	PH03	Total/NA	Solid	8015B NM	49659
890-4387-4	PH04	Total/NA	Solid	8015B NM	49659
890-4387-5	PH05	Total/NA	Solid	8015B NM	49659
890-4387-6	PH06	Total/NA	Solid	8015B NM	49659
MB 880-49659/1-A	Method Blank	Total/NA	Solid	8015B NM	49659
LCS 880-49659/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49659
LCSD 880-49659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49659
880-26265-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49659
880-26265-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49659

Prep Batch: 49712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4387-7	PH07	Total/NA	Solid	8015NM Prep	
MB 880-49712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4387-7 MS	PH07	Total/NA	Solid	8015NM Prep	
890-4387-7 MSD	PH07	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4387-1	PH01	Total/NA	Solid	8015 NM	
890-4387-2	PH02	Total/NA	Solid	8015 NM	
890-4387-3	PH03	Total/NA	Solid	8015 NM	
890-4387-4	PH04	Total/NA	Solid	8015 NM	
890-4387-5	PH05	Total/NA	Solid	8015 NM	
890-4387-6	PH06	Total/NA	Solid	8015 NM	
890-4387-7	PH07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4387-1	PH01	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

HPLC/IC (Continued)

Leach Batch: 50009 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4387-2	PH02	Soluble	Solid	DI Leach	
890-4387-3	PH03	Soluble	Solid	DI Leach	
890-4387-4	PH04	Soluble	Solid	DI Leach	
890-4387-5	PH05	Soluble	Solid	DI Leach	
890-4387-6	PH06	Soluble	Solid	DI Leach	
890-4387-7	PH07	Soluble	Solid	DI Leach	
MB 880-50009/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50009/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50009/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4390-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4390-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 50058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4387-1	PH01	Soluble	Solid	300.0	50009
890-4387-2	PH02	Soluble	Solid	300.0	50009
890-4387-3	PH03	Soluble	Solid	300.0	50009
890-4387-4	PH04	Soluble	Solid	300.0	50009
890-4387-5	PH05	Soluble	Solid	300.0	50009
890-4387-6	PH06	Soluble	Solid	300.0	50009
890-4387-7	PH07	Soluble	Solid	300.0	50009
MB 880-50009/1-A	Method Blank	Soluble	Solid	300.0	50009
LCS 880-50009/2-A	Lab Control Sample	Soluble	Solid	300.0	50009
LCSD 880-50009/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50009
890-4390-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	50009
890-4390-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	50009

Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Client Sample ID: PH01
Date Collected: 03/22/23 11:05
Date Received: 03/22/23 15:02

Lab Sample ID: 890-4387-1
Matrix: Solid

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	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 00:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50260	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			49827	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 18:48	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50058	03/31/23 23:19	SMC	EET MID

Client Sample ID: PH02
Date Collected: 03/22/23 12:15
Date Received: 03/22/23 15:02

Lab Sample ID: 890-4387-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 01:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50260	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			49827	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 19:09	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50058	03/31/23 23:24	SMC	EET MID

Client Sample ID: PH03
Date Collected: 03/22/23 12:35
Date Received: 03/22/23 15:02

Lab Sample ID: 890-4387-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50260	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			49827	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 19:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50058	03/31/23 23:38	SMC	EET MID

Client Sample ID: PH04
Date Collected: 03/22/23 12:45
Date Received: 03/22/23 15:02

Lab Sample ID: 890-4387-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 01:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50260	04/03/23 16:44	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Client Sample ID: PH04

Lab Sample ID: 890-4387-4

Date Collected: 03/22/23 12:45

Matrix: Solid

Date Received: 03/22/23 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49827	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 19:50	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50058	03/31/23 23:42	SMC	EET MID

Client Sample ID: PH05

Lab Sample ID: 890-4387-5

Date Collected: 03/22/23 13:05

Matrix: Solid

Date Received: 03/22/23 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 02:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50260	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			49827	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 20:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50058	03/31/23 23:47	SMC	EET MID

Client Sample ID: PH06

Lab Sample ID: 890-4387-6

Date Collected: 03/22/23 13:15

Matrix: Solid

Date Received: 03/22/23 15:02

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	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 02:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50260	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			49827	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 20:31	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50058	03/31/23 23:51	SMC	EET MID

Client Sample ID: PH07

Lab Sample ID: 890-4387-7

Date Collected: 03/22/23 13:30

Matrix: Solid

Date Received: 03/22/23 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 02:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50260	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			49827	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 22:47	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Client Sample ID: PH07
Date Collected: 03/22/23 13:30
Date Received: 03/22/23 15:02

Lab Sample ID: 890-4387-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50058	03/31/23 23:56	SMC	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

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 500 CTB

Job ID: 890-4387-1
SDG: 03C1558187

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4387-1	PH01	Solid	03/22/23 11:05	03/22/23 15:02	2.0
890-4387-2	PH02	Solid	03/22/23 12:15	03/22/23 15:02	2.0
890-4387-3	PH03	Solid	03/22/23 12:35	03/22/23 15:02	2.0
890-4387-4	PH04	Solid	03/22/23 12:45	03/22/23 15:02	2.0
890-4387-5	PH05	Solid	03/22/23 13:05	03/22/23 15:02	2.0
890-4387-6	PH06	Solid	03/22/23 13:15	03/22/23 15:02	2.0
890-4387-7	PH07	Solid	03/22/23 13:30	03/22/23 15:02	2.0

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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

Chain of Custody

Work Order No: _____

www.xenco.com

Page 1 of 1

Project Manager:	Ben Bell	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments			
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐		
State of Project:			
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐		
Deliverables:	EDD ☐ ADAPT ☐ Other: _____		

Project Name:	Remuda 500 CTB	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03C1558187	Due Date:	5 days		
Project Location:	32.2004 - 103.9304	TAT starts the day received by the lab, if received by 430pm			
Sampler's Name:	Mariah O'Dell				
PO #:					

SAMPLE RECEIPT		Parameters	
Samples Received Intact:	Yes No	Thermometer ID:	Yes No
Cooler Custody Seals:	Yes No	Correction Factor:	-0.2
Sample Custody Seals:	Yes No	Temperature Reading:	2.0
Total Containers:		Corrected Temperature:	1.8

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes
PH01	S	03/22/23	11:05	2.0'	G	1	Chlorides	None: NO DI Water: H ₂ O
PH02			12:15			1	BTEX	Cool: Cool MeOH: Me
PH03			12:35			1	TPH	HCL: HC HNO: HN
PH04			12:45			1		H ₂ SO: H ₂ H ₃ PO: HP
PH05			13:05			1		NaHSO: NABIS Na ₂ S: O ₂ : NaSO: 3
PH06			13:15			1		Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
PH07			13:30			1		



890-4367 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes
PH01	S	03/22/23	11:05	2.0'	G	1	Chlorides	None: NO DI Water: H ₂ O
PH02			12:15			1	BTEX	Cool: Cool MeOH: Me
PH03			12:35			1	TPH	HCL: HC HNO: HN
PH04			12:45			1		H ₂ SO: H ₂ H ₃ PO: HP
PH05			13:05			1		NaHSO: NABIS Na ₂ S: O ₂ : NaSO: 3
PH06			13:15			1		Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
PH07			13:30			1		

Total 200.7 / 6010	2008 / 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 SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

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's 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 negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Ben Bell	Garrett Green	3.22.23 15:03			

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4387-1

SDG Number: 03C1558187

Login Number: 4387

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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: 890-4387-1

SDG Number: 03C1558187

Login Number: 4387

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 03/24/23 11:08 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 4/5/2023 9:08:01 PM

JOB DESCRIPTION

Remuda 500 CTB
SDG NUMBER 03C1558187

JOB NUMBER

890-4398-1

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
4/5/2023 9:08:01 PM

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

Client: Ensolum
Project/Site: Remuda 500 CTB

Laboratory Job ID: 890-4398-1
SDG: 03C1558187

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Definitions/Glossary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

Job ID: 890-4398-1

Laboratory: Eurofins Carlsbad

Narrative	Job Narrative 890-4398-1
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Receipt

The sample was received on 3/23/2023 3:48 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS13 (890-4398-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-50193/5-A). 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

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49771 and analytical batch 880-49783 was outside the upper control limits.

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 for preparation batch 880-50166 and analytical batch 880-50311 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.SS13 (890-4398-1), (890-4392-A-1-D), (890-4392-A-1-E MS) and (890-4392-A-1-F MSD)

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

Client Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

Client Sample ID: SS13

Lab Sample ID: 890-4398-1

Date Collected: 03/23/23 08:25

Matrix: Solid

Date Received: 03/23/23 15:48

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/03/23 13:16	04/05/23 16:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/03/23 13:16	04/05/23 16:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/03/23 13:16	04/05/23 16:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/03/23 13:16	04/05/23 16:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/03/23 13:16	04/05/23 16:23	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/03/23 13:16	04/05/23 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/03/23 13:16	04/05/23 16:23	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/03/23 13:16	04/05/23 16:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/05/23 17:13	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			03/30/23 12:56	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	<50.0	U	50.0	mg/Kg		03/28/23 17:17	03/29/23 19:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/28/23 17:17	03/29/23 19:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/23 17:17	03/29/23 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/28/23 17:17	03/29/23 19:14	1
o-Terphenyl	100		70 - 130	03/28/23 17:17	03/29/23 19:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	381		5.00	mg/Kg			04/03/23 20:38	1

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Surrogate Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4396-A-1-C MS	Matrix Spike	94	105
890-4396-A-1-D MSD	Matrix Spike Duplicate	95	103
890-4398-1	SS13	112	97
LCS 880-50193/1-A	Lab Control Sample	101	78
LCSD 880-50193/2-A	Lab Control Sample Dup	102	97
MB 880-50193/5-A	Method Blank	63 S1-	85
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 Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-26267-A-10-B MS	Matrix Spike	117	101
880-26267-A-10-C MSD	Matrix Spike Duplicate	105	91
890-4398-1	SS13	107	100
LCS 880-49771/2-A	Lab Control Sample	123	115
LCSD 880-49771/3-A	Lab Control Sample Dup	118	113
MB 880-49771/1-A	Method Blank	132 S1+	119
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50193/5-A

Matrix: Solid

Analysis Batch: 50361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50193

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/03/23 13:16	04/05/23 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	04/03/23 13:16	04/05/23 12:26	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/03/23 13:16	04/05/23 12:26	1

Lab Sample ID: LCS 880-50193/1-A

Matrix: Solid

Analysis Batch: 50361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08752		mg/Kg		88	70 - 130
Toluene	0.100	0.09671		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09057		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1752		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08957		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: LCSD 880-50193/2-A

Matrix: Solid

Analysis Batch: 50361

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50193

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1092		mg/Kg		109	70 - 130	22	35
Toluene	0.100	0.1119		mg/Kg		112	70 - 130	15	35
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.1996		mg/Kg		100	70 - 130	13	35
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-4396-A-1-C MS

Matrix: Solid

Analysis Batch: 50361

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09335		mg/Kg		94	70 - 130
Toluene	<0.00200	U	0.0998	0.09259		mg/Kg		93	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

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

Lab Sample ID: 890-4396-A-1-C MS

Matrix: Solid

Analysis Batch: 50361

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.08958		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1736		mg/Kg		87	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08834		mg/Kg		89	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	94		70 - 130						
1,4-Difluorobenzene (Surr)	105		70 - 130						

Lab Sample ID: 890-4396-A-1-D MSD

Matrix: Solid

Analysis Batch: 50361

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50193

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09826		mg/Kg		98	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.09578		mg/Kg		95	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09321		mg/Kg		93	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1814		mg/Kg		90	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.09279		mg/Kg		92	70 - 130	5	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		70 - 130								
1,4-Difluorobenzene (Surr)	103		70 - 130								

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

Lab Sample ID: MB 880-49771/1-A

Matrix: Solid

Analysis Batch: 49783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49771

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/28/23 17:17	03/29/23 08:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/28/23 17:17	03/29/23 08:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/23 17:17	03/29/23 08:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			03/28/23 17:17	03/29/23 08:47	1
o-Terphenyl	119		70 - 130			03/28/23 17:17	03/29/23 08:47	1

Lab Sample ID: LCS 880-49771/2-A

Matrix: Solid

Analysis Batch: 49783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	846.1		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	801.6		mg/Kg		80	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

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

Lab Sample ID: LCS 880-49771/2-A
Matrix: Solid
Analysis Batch: 49783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49771

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: LCSD 880-49771/3-A
Matrix: Solid
Analysis Batch: 49783

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49771

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	820.0		mg/Kg		82	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	833.0		mg/Kg		83	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 880-26267-A-10-B MS
Matrix: Solid
Analysis Batch: 49783

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1118		mg/Kg		109	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	833.6		mg/Kg		81	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 880-26267-A-10-C MSD
Matrix: Solid
Analysis Batch: 49783

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 49771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1004		mg/Kg		98	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	748.7		mg/Kg		72	70 - 130	11	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	91		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50166/1-A

Matrix: Solid

Analysis Batch: 50311

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/03/23 20:02	1

Lab Sample ID: LCS 880-50166/2-A

Matrix: Solid

Analysis Batch: 50311

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.3		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-50166/3-A

Matrix: Solid

Analysis Batch: 50311

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	240.7		mg/Kg		96	90 - 110	2	20

Lab Sample ID: 890-4392-A-1-E MS

Matrix: Solid

Analysis Batch: 50311

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	255	F1	250	434.2	F1	mg/Kg		72	90 - 110

Lab Sample ID: 890-4392-A-1-F MSD

Matrix: Solid

Analysis Batch: 50311

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	255	F1	250	437.0	F1	mg/Kg		73	90 - 110	1	20

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QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

GC VOA

Prep Batch: 50193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4398-1	SS13	Total/NA	Solid	5035	
MB 880-50193/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50193/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50193/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4396-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4396-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 50361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4398-1	SS13	Total/NA	Solid	8021B	50193
MB 880-50193/5-A	Method Blank	Total/NA	Solid	8021B	50193
LCS 880-50193/1-A	Lab Control Sample	Total/NA	Solid	8021B	50193
LCSD 880-50193/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50193
890-4396-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	50193
890-4396-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50193

Analysis Batch: 50433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4398-1	SS13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4398-1	SS13	Total/NA	Solid	8015NM Prep	
MB 880-49771/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49771/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26267-A-10-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26267-A-10-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4398-1	SS13	Total/NA	Solid	8015B NM	49771
MB 880-49771/1-A	Method Blank	Total/NA	Solid	8015B NM	49771
LCS 880-49771/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49771
LCSD 880-49771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49771
880-26267-A-10-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49771
880-26267-A-10-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49771

Analysis Batch: 49939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4398-1	SS13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4398-1	SS13	Soluble	Solid	DI Leach	
MB 880-50166/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50166/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50166/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

HPLC/IC (Continued)

Leach Batch: 50166 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4392-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4392-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 50311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4398-1	SS13	Soluble	Solid	300.0	50166
MB 880-50166/1-A	Method Blank	Soluble	Solid	300.0	50166
LCS 880-50166/2-A	Lab Control Sample	Soluble	Solid	300.0	50166
LCSD 880-50166/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50166
890-4392-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	50166
890-4392-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	50166

Lab Chronicle

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

Client Sample ID: SS13
Date Collected: 03/23/23 08:25
Date Received: 03/23/23 15:48

Lab Sample ID: 890-4398-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 16:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50433	04/05/23 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			49939	03/30/23 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49771	03/28/23 17:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49783	03/29/23 19:14	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50166	04/03/23 11:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50311	04/03/23 20:38	SMC	EET MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: Remuda 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

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 500 CTB

Job ID: 890-4398-1
SDG: 03C1558187

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4398-1	SS13	Solid	03/23/23 08:25	03/23/23 15:48	0.5'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3333
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Ben Beill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	bbeill@ensolum.com

Work Order Comments				
Program:	UST/PST ☐	PRP ☐	Brownfields ☐	RRC ☐ Superfund ☐
State of Project:				
Reporting:	Level II ☐	Level III ☐	PST/UST ☐	TRRP ☐ Level IV ☐
Deliverables:	EDD ☐	Adapt ☐	Other:	

Project Name:		Remuda 500 CTB		Turn Around				Pres. Code				ANALYSIS REQUEST		Preservative Codes	
Project Number:		03C1558187		☒ Routine ☐ Rush										None: NO	
Project Location:		3A-26994-103-93624		Due Date:										Cool: Cool	
Sampler's Name:		Meredith Roberts		TAT starts the day received by the lab, if received by 4:30pm										HCL: HC	
P.O. #:														H ₂ SO ₄ : H ₂	
SAMPLE RECEIPT		Temp Blank:		(Yes/No)		Wet Ice:		(Yes/No)						O ₂ : HP	
Samples Received In tact:		(Yes/No)		Thermometer ID:				TAT-007						450 g: NABIS	
Cooler Custody Seals:		Yes (No) N/A		Correction Factor:				-0.0						2.5 O ₂ : NaSO ₃	
Sample Custody Seals:		Yes No N/A		Temperature Readings:				3.3						Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:				3.0						OH+Ascorbic Acid: SACP	
Parameters												890-4398 Chain of Custody			
LU X bonds H															

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BT	U	TP	Sample Comments
SS13	S	3/23/23	0835	0-5'	G	1	X	X	X	Incident #: NAPP230654797
										Cost Center: 1067601001
										mmevett@consolidum
										Sample bags (WEST) by prod. name

Total 2007 / 6010	2008 / 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 SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

of service. Eurofins Xeno 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated in writing. Signature of this document and acquisition of sample contains a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions (Notice: Signature of this document and acquisition of sample contains a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated in writing. Signature of this document and acquisition of sample contains a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Phedra</i>	<i>Phedra</i>	3/23/23 1508			
3			4		
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4398-1

SDG Number: 03C1558187

Login Number: 4398

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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: 890-4398-1

SDG Number: 03C1558187

Login Number: 4398

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 03/28/23 01:37 PM

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").	N/A	



APPENDIX E

NMOCD Notifications

Ben Belill

From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Friday, March 17, 2023 11:59 AM
To: Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Cc: Ben Belill; DelawareSpills /SM
Subject: XTO - 48 Hour Liner Inspection Notifications - Multiple Releases

[**EXTERNAL EMAIL**]

Good morning,

This is sent as a 48-hour notification, XTO is scheduled to inspect the following lined containments listed below on Tuesday, March 21, 2023. Please call us with any questions or concerns.

Site: JRU 21 SWD
Incident Number: nAPP2305452388
Time: 10:00 am MST
GPS Coordinates: (32.36881,-103.86730)

Site: Remuda 500
Incident Number: nAPP2306544797
Time: 12:00 pm MST
GPS Coordinates: (32.270271,-103.936544)

Site: PLU 13 Dog Town Draw Battery
Incident Number: nAPP2304448906
Time: 2:00 pm MST
GPS Coordinates: (32.20569,-103.83013)

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: [Green, Garrett J](#)
To: [Tacoma Morrissey](#); [Ben Belill](#)
Subject: FW: [EXTERNAL] XTO - Sampling Notification (Week of 3/20/23 - 3/24/23)
Date: Friday, March 17, 2023 1:38:12 PM

[**EXTERNAL EMAIL**]

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, March 16, 2023 4:33 PM
To: Green, Garrett J <garrett.green@exxonmobil.com>; 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: RE: [EXTERNAL] XTO - Sampling Notification (Week of 3/20/23 - 3/24/23)

External Email – Think Before You Click

Garrett,

Please be aware that notification requirements are **two business days**, per rule. Please include specific days and times you will be sampling each site. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

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](http://www.emnrd.nm.gov)



From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Thursday, March 16, 2023 9:52 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 3/20/23 - 3/24/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on

links or opening attachments.

All,

XTO plans to complete final sampling activities at the additional site the week of Mar 20, 2023.

-

- PLU 27 BD 163 / nAPP2226337852
- PLU CVX JV BS 008H / NAB1602154960
- PLU 420H / nAB1834656162
- Perla Verde 31 State battery/ nAPP2303444414
- BEU Hackberry / nAB1726335399
- Remuda 500 CTB / nAPP2303854000 & nAPP2306544797
- Indian Deep Com 7/ NAPP2301152626
- Nash Unit 36 / nAPP2224236187

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 C

Photographic Log



Photographic Log

XTO Energy, Inc

Remuda 500 CTB

NAPP2234832761 and NAPP2306544797



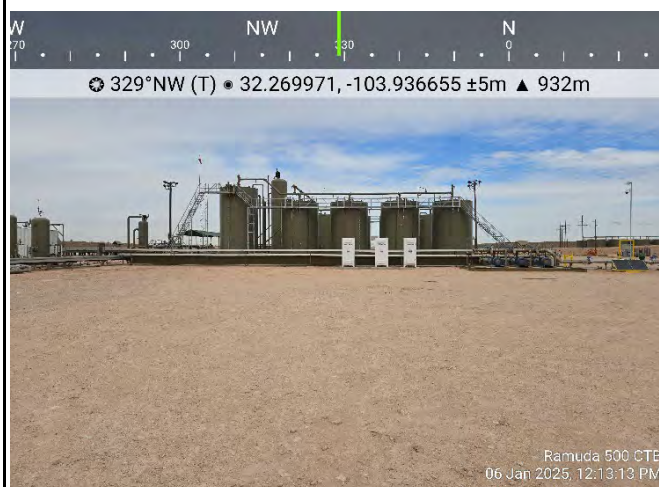
Photograph 1 Date: 01/04/2024
Description: Starting excavation activities
View: West



Photograph 2 Date: 01/09/2024
Description: Excavation activities
View: Northwest



Photograph 3 Date: 01/09/2024
Description: Excavation activities
View: South



Photograph 4 Date: 01/06/2025
Description: Backfilled excavation
View: North-northwest



APPENDIX D

Laboratory Analytical Reports and Chain of Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 1/12/2024 2:13:45 PM

JOB DESCRIPTION

REMUDA 500 CTB

03C1558151 / 03C1558187

JOB NUMBER

890-5904-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
1/12/2024 2:13:45 PM

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

Client: Ensolum
Project/Site: REMUDA 500 CTB

Laboratory Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

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Definitions/Glossary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project: REMUDA 500 CTB

Job ID: 890-5904-1

Job ID: 890-5904-1

Eurofins Carlsbad

Job Narrative
890-5904-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/5/2024 4:13 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 0.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS 01 (890-5904-1), FS 02 (890-5904-2), FS 03 (890-5904-3), FS 04 (890-5904-4), FS 05 (890-5904-5), FS 06 (890-5904-6), FS 07 (890-5904-7), FS 08 (890-5904-8), FS 09 (890-5904-9), FS 10 (890-5904-10), FS 11 (890-5904-11), FS 12 (890-5904-12), FS 13 (890-5904-13), FS 14 (890-5904-14), SW 01 (890-5904-15), SW 02 (890-5904-16) and SW 03 (890-5904-17).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS 03 (890-5904-3), FS 07 (890-5904-7), SW 01 (890-5904-15), SW 02 (890-5904-16) and SW 03 (890-5904-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-70509 and analytical batch 880-70625 was outside the control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-70505 and analytical batch 880-70625 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-70505/2-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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-5904-A-1-F MS) and (890-5904-A-1-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70539 and analytical batch 880-70525 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 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-70593 and analytical batch 880-70523 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-70593/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS 06 (890-5904-6). 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.

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project: REMUDA 500 CTB

Job ID: 890-5904-1

Job ID: 890-5904-1 (Continued) Eurofins Carlsbad

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

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Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 01

Lab Sample ID: 890-5904-1

Date Collected: 01/04/24 13:15

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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		01/09/24 16:57	01/12/24 01:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 01:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 01:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/09/24 16:57	01/12/24 01:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 01:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/09/24 16:57	01/12/24 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	01/09/24 16:57	01/12/24 01:53	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/09/24 16:57	01/12/24 01:53	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			01/12/24 01:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/10/24 10:54	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 F1	49.9	mg/Kg		01/10/24 09:19	01/10/24 10:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg		01/10/24 09:19	01/10/24 10:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/10/24 09:19	01/10/24 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	01/10/24 09:19	01/10/24 10:54	1
o-Terphenyl	77		70 - 130	01/10/24 09:19	01/10/24 10:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		5.04	mg/Kg			01/10/24 21:51	1

Client Sample ID: FS 02

Lab Sample ID: 890-5904-2

Date Collected: 01/04/24 13:20

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/09/24 16:57	01/12/24 02:19	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/09/24 16:57	01/12/24 02:19	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/09/24 16:57	01/12/24 02:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/09/24 16:57	01/12/24 02:19	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/09/24 16:57	01/12/24 02:19	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/09/24 16:57	01/12/24 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/09/24 16:57	01/12/24 02:19	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 02

Lab Sample ID: 890-5904-2

Date Collected: 01/04/24 13:20

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	73		70 - 130	01/09/24 16:57	01/12/24 02:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/12/24 02:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			01/10/24 12:04	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	<50.5	U	50.5	mg/Kg		01/10/24 09:19	01/10/24 12:04	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/10/24 09:19	01/10/24 12:04	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/10/24 09:19	01/10/24 12:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			01/10/24 09:19	01/10/24 12:04	1
o-Terphenyl	79		70 - 130			01/10/24 09:19	01/10/24 12:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	474		4.97	mg/Kg			01/10/24 21:56	1

Client Sample ID: FS 03

Lab Sample ID: 890-5904-3

Date Collected: 01/04/24 15:20

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 02:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 02:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 02:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 02:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 02:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 02:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			01/09/24 16:57	01/12/24 02:46	1
1,4-Difluorobenzene (Surr)	142	S1+	70 - 130			01/09/24 16:57	01/12/24 02:46	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			01/12/24 02:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/10/24 12:26	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 03

Lab Sample ID: 890-5904-3

Date Collected: 01/04/24 15:20

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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	<49.7	U	49.7	mg/Kg		01/10/24 09:19	01/10/24 12:26	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/10/24 09:19	01/10/24 12:26	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/10/24 09:19	01/10/24 12:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			01/10/24 09:19	01/10/24 12:26	1
o-Terphenyl	85		70 - 130			01/10/24 09:19	01/10/24 12:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	215		4.99	mg/Kg			01/10/24 18:40	1

Client Sample ID: FS 04

Lab Sample ID: 890-5904-4

Date Collected: 01/04/24 15:25

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 03:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 03:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 03:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 03:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 03:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			01/09/24 16:57	01/12/24 03:13	1
1,4-Difluorobenzene (Surr)	85		70 - 130			01/09/24 16:57	01/12/24 03:13	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			01/12/24 03:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/10/24 12:49	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		01/10/24 09:19	01/10/24 12:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/10/24 09:19	01/10/24 12:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/10/24 09:19	01/10/24 12:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			01/10/24 09:19	01/10/24 12:49	1
o-Terphenyl	79		70 - 130			01/10/24 09:19	01/10/24 12:49	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 04

Lab Sample ID: 890-5904-4

Date Collected: 01/04/24 15:25

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2120		25.2	mg/Kg			01/10/24 18:47	5

Client Sample ID: FS 05

Lab Sample ID: 890-5904-5

Date Collected: 01/05/24 10:30

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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		01/09/24 16:57	01/12/24 03:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 03:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 03:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/09/24 16:57	01/12/24 03:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 03:39	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/09/24 16:57	01/12/24 03:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			01/09/24 16:57	01/12/24 03:39	1
1,4-Difluorobenzene (Surr)	116		70 - 130			01/09/24 16:57	01/12/24 03:39	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	mg/Kg			01/12/24 03:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/10/24 13:12	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	<49.8	U	49.8	mg/Kg		01/10/24 09:19	01/10/24 13:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/10/24 09:19	01/10/24 13:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/10/24 09:19	01/10/24 13:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			01/10/24 09:19	01/10/24 13:12	1
o-Terphenyl	76		70 - 130			01/10/24 09:19	01/10/24 13:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030		24.9	mg/Kg			01/10/24 19:07	5

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 06

Lab Sample ID: 890-5904-6

Date Collected: 01/05/24 12:35

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/09/24 16:57	01/12/24 04:06	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/09/24 16:57	01/12/24 04:06	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/09/24 16:57	01/12/24 04:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/09/24 16:57	01/12/24 04:06	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/09/24 16:57	01/12/24 04:06	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/09/24 16:57	01/12/24 04:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			01/09/24 16:57	01/12/24 04:06	1
1,4-Difluorobenzene (Surr)	117		70 - 130			01/09/24 16:57	01/12/24 04:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/12/24 04:06	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			01/10/24 23:46	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	<50.0	U	50.0	mg/Kg		01/10/24 15:47	01/10/24 23:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/10/24 15:47	01/10/24 23:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/10/24 15:47	01/10/24 23:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			01/10/24 15:47	01/10/24 23:46	1
o-Terphenyl	134	S1+	70 - 130			01/10/24 15:47	01/10/24 23:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	408		4.96	mg/Kg			01/10/24 19:14	1

Client Sample ID: FS 07

Lab Sample ID: 890-5904-7

Date Collected: 01/05/24 12:40

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 04:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 04:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 04:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 04:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 04:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 04:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			01/09/24 16:57	01/12/24 04:33	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 07

Lab Sample ID: 890-5904-7

Date Collected: 01/05/24 12:40

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	140	S1+	70 - 130	01/09/24 16:57	01/12/24 04:33	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			01/12/24 04:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			01/11/24 00:08	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	<49.6	U	49.6	mg/Kg		01/10/24 15:47	01/11/24 00:08	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		01/10/24 15:47	01/11/24 00:08	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/10/24 15:47	01/11/24 00:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			01/10/24 15:47	01/11/24 00:08	1
o-Terphenyl	114		70 - 130			01/10/24 15:47	01/11/24 00:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		24.9	mg/Kg			01/10/24 19:21	5

Client Sample ID: FS 08

Lab Sample ID: 890-5904-8

Date Collected: 01/05/24 12:45

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/09/24 16:57	01/12/24 04:59	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/09/24 16:57	01/12/24 04:59	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/09/24 16:57	01/12/24 04:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/09/24 16:57	01/12/24 04:59	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/09/24 16:57	01/12/24 04:59	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/09/24 16:57	01/12/24 04:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			01/09/24 16:57	01/12/24 04:59	1
1,4-Difluorobenzene (Surr)	128		70 - 130			01/09/24 16:57	01/12/24 04:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/12/24 04:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			01/11/24 00:29	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 08

Lab Sample ID: 890-5904-8

Date Collected: 01/05/24 12:45

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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	<50.1	U	50.1	mg/Kg		01/10/24 15:47	01/11/24 00:29	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		01/10/24 15:47	01/11/24 00:29	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/10/24 15:47	01/11/24 00:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			01/10/24 15:47	01/11/24 00:29	1
o-Terphenyl	115		70 - 130			01/10/24 15:47	01/11/24 00:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3670		25.3	mg/Kg			01/10/24 19:28	5

Client Sample ID: FS 09

Lab Sample ID: 890-5904-9

Date Collected: 01/05/24 12:50

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 05:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 05:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 05:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 05:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 05:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 05:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			01/09/24 16:57	01/12/24 05:26	1
1,4-Difluorobenzene (Surr)	125		70 - 130			01/09/24 16:57	01/12/24 05:26	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			01/12/24 05:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			01/11/24 00:50	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	<50.4	U	50.4	mg/Kg		01/10/24 15:47	01/11/24 00:50	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/10/24 15:47	01/11/24 00:50	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/10/24 15:47	01/11/24 00:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			01/10/24 15:47	01/11/24 00:50	1
o-Terphenyl	119		70 - 130			01/10/24 15:47	01/11/24 00:50	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 09

Lab Sample ID: 890-5904-9

Date Collected: 01/05/24 12:50

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		25.1	mg/Kg			01/10/24 19:35	5

Client Sample ID: FS 10

Lab Sample ID: 890-5904-10

Date Collected: 01/05/24 14:10

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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		01/09/24 16:57	01/12/24 05:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 05:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 05:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/09/24 16:57	01/12/24 05:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 05:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/09/24 16:57	01/12/24 05:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			01/09/24 16:57	01/12/24 05:53	1
1,4-Difluorobenzene (Surr)	78		70 - 130			01/09/24 16:57	01/12/24 05:53	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			01/12/24 05:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			01/11/24 01:32	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	<50.2	U	50.2	mg/Kg		01/10/24 15:47	01/11/24 01:32	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		01/10/24 15:47	01/11/24 01:32	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/10/24 15:47	01/11/24 01:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			01/10/24 15:47	01/11/24 01:32	1
o-Terphenyl	111		70 - 130			01/10/24 15:47	01/11/24 01:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.3		5.01	mg/Kg			01/10/24 19:42	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 11

Lab Sample ID: 890-5904-11

Date Collected: 01/05/24 14:15

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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		01/09/24 16:57	01/12/24 07:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 07:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 07:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/09/24 16:57	01/12/24 07:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 07:40	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/09/24 16:57	01/12/24 07:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	01/09/24 16:57	01/12/24 07:40	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/09/24 16:57	01/12/24 07:40	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	mg/Kg			01/12/24 07:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			01/11/24 01:53	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	<50.5	U	50.5	mg/Kg		01/10/24 15:47	01/11/24 01:53	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/10/24 15:47	01/11/24 01:53	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/10/24 15:47	01/11/24 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	01/10/24 15:47	01/11/24 01:53	1
o-Terphenyl	106		70 - 130	01/10/24 15:47	01/11/24 01:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		4.99	mg/Kg			01/10/24 20:02	1

Client Sample ID: FS 12

Lab Sample ID: 890-5904-12

Date Collected: 01/05/24 14:20

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 08:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 08:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 08:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 08:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 08:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	01/09/24 16:57	01/12/24 08:07	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 12

Lab Sample ID: 890-5904-12

Date Collected: 01/05/24 14:20

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	125		70 - 130	01/09/24 16:57	01/12/24 08:07	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			01/12/24 08:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/11/24 02:15	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	<49.8	U	49.8	mg/Kg		01/10/24 15:47	01/11/24 02:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/10/24 15:47	01/11/24 02:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/10/24 15:47	01/11/24 02:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			01/10/24 15:47	01/11/24 02:15	1
o-Terphenyl	125		70 - 130			01/10/24 15:47	01/11/24 02:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357		4.97	mg/Kg			01/10/24 20:09	1

Client Sample ID: FS 13

Lab Sample ID: 890-5904-13

Date Collected: 01/05/24 14:25

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 08:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 08:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 08:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 08:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 08:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 08:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			01/09/24 16:57	01/12/24 08:34	1
1,4-Difluorobenzene (Surr)	118		70 - 130			01/09/24 16:57	01/12/24 08:34	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			01/12/24 08:34	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			01/11/24 02:36	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 13

Lab Sample ID: 890-5904-13

Date Collected: 01/05/24 14:25

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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	<50.0	U	50.0	mg/Kg		01/10/24 15:47	01/11/24 02:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/10/24 15:47	01/11/24 02:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/10/24 15:47	01/11/24 02:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			01/10/24 15:47	01/11/24 02:36	1
o-Terphenyl	125		70 - 130			01/10/24 15:47	01/11/24 02:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.0		4.95	mg/Kg			01/10/24 20:29	1

Client Sample ID: FS 14

Lab Sample ID: 890-5904-14

Date Collected: 01/05/24 14:30

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

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		01/09/24 16:57	01/12/24 09:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 09:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 09:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/09/24 16:57	01/12/24 09:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 09:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/09/24 16:57	01/12/24 09:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			01/09/24 16:57	01/12/24 09:01	1
1,4-Difluorobenzene (Surr)	82		70 - 130			01/09/24 16:57	01/12/24 09:01	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			01/12/24 09:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			01/10/24 16:50	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	<50.1	U	50.1	mg/Kg		01/10/24 09:19	01/10/24 16:50	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		01/10/24 09:19	01/10/24 16:50	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/10/24 09:19	01/10/24 16:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			01/10/24 09:19	01/10/24 16:50	1
o-Terphenyl	84		70 - 130			01/10/24 09:19	01/10/24 16:50	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 14

Lab Sample ID: 890-5904-14

Date Collected: 01/05/24 14:30

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1800		24.9	mg/Kg			01/10/24 20:36	5

Client Sample ID: SW 01

Lab Sample ID: 890-5904-15

Date Collected: 01/05/24 11:30

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 0 - 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 09:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 09:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 09:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 09:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/09/24 16:57	01/12/24 09:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/09/24 16:57	01/12/24 09:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			01/09/24 16:57	01/12/24 09:28	1
1,4-Difluorobenzene (Surr)	167	S1+	70 - 130			01/09/24 16:57	01/12/24 09:28	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			01/12/24 09:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			01/10/24 17:12	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	<50.4	U	50.4	mg/Kg		01/10/24 09:19	01/10/24 17:12	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/10/24 09:19	01/10/24 17:12	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/10/24 09:19	01/10/24 17:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			01/10/24 09:19	01/10/24 17:12	1
o-Terphenyl	85		70 - 130			01/10/24 09:19	01/10/24 17:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	368		5.00	mg/Kg			01/10/24 20:43	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: SW 02

Lab Sample ID: 890-5904-16

Date Collected: 01/05/24 14:35

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 0 - 4'

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		01/09/24 16:57	01/12/24 09:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 09:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 09:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/09/24 16:57	01/12/24 09:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 09:54	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/09/24 16:57	01/12/24 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	53	S1-	70 - 130	01/09/24 16:57	01/12/24 09:54	1
1,4-Difluorobenzene (Surr)	87		70 - 130	01/09/24 16:57	01/12/24 09:54	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			01/12/24 09:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			01/10/24 17:34	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	<50.3	U	50.3	mg/Kg		01/10/24 09:19	01/10/24 17:34	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		01/10/24 09:19	01/10/24 17:34	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		01/10/24 09:19	01/10/24 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	01/10/24 09:19	01/10/24 17:34	1
o-Terphenyl	79		70 - 130	01/10/24 09:19	01/10/24 17:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.0		5.00	mg/Kg			01/10/24 20:50	1

Client Sample ID: SW 03

Lab Sample ID: 890-5904-17

Date Collected: 01/05/24 14:40

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 0 - 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/09/24 16:57	01/12/24 10:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/09/24 16:57	01/12/24 10:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/09/24 16:57	01/12/24 10:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/09/24 16:57	01/12/24 10:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/09/24 16:57	01/12/24 10:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/09/24 16:57	01/12/24 10:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	01/09/24 16:57	01/12/24 10:20	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: SW 03

Lab Sample ID: 890-5904-17

Date Collected: 01/05/24 14:40

Matrix: Solid

Date Received: 01/05/24 16:13

Sample Depth: 0 - 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	141	S1+	70 - 130	01/09/24 16:57	01/12/24 10:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/12/24 10:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			01/10/24 17:56	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	<50.5	U	50.5	mg/Kg		01/10/24 09:19	01/10/24 17:56	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/10/24 09:19	01/10/24 17:56	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/10/24 09:19	01/10/24 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	01/10/24 09:19	01/10/24 17:56	1
o-Terphenyl	80		70 - 130	01/10/24 09:19	01/10/24 17:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406		4.99	mg/Kg			01/10/24 20:57	1

Surrogate Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5904-1	FS 01	91	103
890-5904-1 MS	FS 01	110	104
890-5904-1 MSD	FS 01	125	104
890-5904-2	FS 02	108	73
890-5904-3	FS 03	121	142 S1+
890-5904-4	FS 04	114	85
890-5904-5	FS 05	95	116
890-5904-6	FS 06	105	117
890-5904-7	FS 07	120	140 S1+
890-5904-8	FS 08	126	128
890-5904-9	FS 09	127	125
890-5904-10	FS 10	97	78
890-5904-11	FS 11	93	97
890-5904-12	FS 12	112	125
890-5904-13	FS 13	114	118
890-5904-14	FS 14	92	82
890-5904-15	SW 01	125	167 S1+
890-5904-16	SW 02	53 S1-	87
890-5904-17	SW 03	85	141 S1+
LCS 880-70505/1-A	Lab Control Sample	101	112
LCSD 880-70505/2-A	Lab Control Sample Dup	136 S1+	111
MB 880-70505/5-A	Method Blank	66 S1-	119
MB 880-70509/5-A	Method Blank	69 S1-	120
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 Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-37681-A-1-F MS	Matrix Spike	104	103
880-37681-A-1-G MSD	Matrix Spike Duplicate	102	101
890-5904-1	FS 01	80	77
890-5904-1 MS	FS 01	73	65 S1-
890-5904-1 MSD	FS 01	73	64 S1-
890-5904-2	FS 02	81	79
890-5904-3	FS 03	86	85
890-5904-4	FS 04	80	79
890-5904-5	FS 05	76	76
890-5904-6	FS 06	123	134 S1+
890-5904-7	FS 07	104	114
890-5904-8	FS 08	104	115
890-5904-9	FS 09	109	119
890-5904-10	FS 10	104	111
890-5904-11	FS 11	99	106
890-5904-12	FS 12	115	125

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Surrogate Summary

Client: Ensolum

Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1

SDG: 03C1558151 / 03C1558187

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5904-13	FS 13	115	125
890-5904-14	FS 14	85	84
890-5904-15	SW 01	85	85
890-5904-16	SW 02	79	79
890-5904-17	SW 03	81	80
LCS 880-70539/2-A	Lab Control Sample	93	103
LCS 880-70593/2-A	Lab Control Sample	114	137 S1+
LCSD 880-70539/3-A	Lab Control Sample Dup	95	108
LCSD 880-70593/3-A	Lab Control Sample Dup	93	110
MB 880-70539/1-A - RA2	Method Blank	94	98
MB 880-70593/1-A	Method Blank	124	145 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70505/5-A

Matrix: Solid

Analysis Batch: 70625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70505

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 01:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 01:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 01:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/09/24 16:57	01/12/24 01:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:57	01/12/24 01:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/09/24 16:57	01/12/24 01:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	01/09/24 16:57	01/12/24 01:26	1
1,4-Difluorobenzene (Surr)	119		70 - 130	01/09/24 16:57	01/12/24 01:26	1

Lab Sample ID: LCS 880-70505/1-A

Matrix: Solid

Analysis Batch: 70625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08641		mg/Kg		86	70 - 130
Toluene	0.100	0.08540		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08639		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1887		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09229		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-70505/2-A

Matrix: Solid

Analysis Batch: 70625

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1143		mg/Kg		114	70 - 130	28	35
Toluene	0.100	0.1064		mg/Kg		106	70 - 130	22	35
Ethylbenzene	0.100	0.1040		mg/Kg		104	70 - 130	18	35
m-Xylene & p-Xylene	0.200	0.2335		mg/Kg		117	70 - 130	21	35
o-Xylene	0.100	0.1093		mg/Kg		109	70 - 130	17	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 890-5904-1 MS

Matrix: Solid

Analysis Batch: 70625

Client Sample ID: FS 01

Prep Type: Total/NA

Prep Batch: 70505

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.07529		mg/Kg		76	70 - 130
Toluene	<0.00200	U	0.0996	0.07751		mg/Kg		78	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: 890-5904-1 MS

Matrix: Solid

Analysis Batch: 70625

Client Sample ID: FS 01

Prep Type: Total/NA

Prep Batch: 70505

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Ethylbenzene	<0.00200	U	0.0996	0.07904		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1713		mg/Kg		86	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.08624		mg/Kg		87	70 - 130	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-5904-1 MSD

Matrix: Solid

Analysis Batch: 70625

Client Sample ID: FS 01

Prep Type: Total/NA

Prep Batch: 70505

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits		RPD	Limit
Benzene	<0.00200	U	0.0990	0.08237		mg/Kg		83	70 - 130		9	35
Toluene	<0.00200	U	0.0990	0.08313		mg/Kg		84	70 - 130		7	35
Ethylbenzene	<0.00200	U	0.0990	0.09696		mg/Kg		98	70 - 130		20	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.2093		mg/Kg		106	70 - 130		20	35
o-Xylene	<0.00200	U	0.0990	0.09597		mg/Kg		97	70 - 130		11	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-70509/5-A

Matrix: Solid

Analysis Batch: 70625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70509

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:59	01/11/24 11:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:59	01/11/24 11:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:59	01/11/24 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/09/24 16:59	01/11/24 11:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/09/24 16:59	01/11/24 11:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/09/24 16:59	01/11/24 11:47	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	01/09/24 16:59	01/11/24 11:47	1
1,4-Difluorobenzene (Surr)	120		70 - 130	01/09/24 16:59	01/11/24 11:47	1

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

Lab Sample ID: LCS 880-70539/2-A

Matrix: Solid

Analysis Batch: 70525

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70539

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	
	Added	Result	Qualifier				Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	890.4		mg/Kg		89	70 - 130	

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: LCS 880-70539/2-A

Matrix: Solid

Analysis Batch: 70525

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	882.1		mg/Kg		88	70 - 130

	LCS	LCS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>1-Chlorooctane</i>	93		70 - 130
<i>o-Terphenyl</i>	103		70 - 130

Lab Sample ID: LCSD 880-70539/3-A

Matrix: Solid

Analysis Batch: 70525

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70539

Analyte	Spike Added	LCS _D Result	LCS _D Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	872.3		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	926.8		mg/Kg		93	70 - 130	5	20

	<i>LCSD</i>	<i>LCSD</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>1-Chlorooctane</i>	95		70 - 130
<i>o</i> -Terphenyl	108		70 - 130

Lab Sample ID: 890-5904-1 MS

Matrix: Solid

Analysis Batch: 70525

Client Sample ID: FS 01

Prep Type: Total/NA

Prep Batch: 70539

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	656.1	F1	mg/Kg		65	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	658.4	F1	mg/Kg		63	70 - 130		

	MS	MS	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
1-Chlorooctane	73		70 - 130
o-Terphenyl	65	S1-	70 - 130

Lab Sample ID: 890-5904-1 MSD

Matrix: Solid

Analysis Batch: 70525

Client Sample ID: FS 01

Prep Type: Total/NA

Prep Batch: 70539

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	655.1	F1	mg/Kg		65	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	677.0	F1	mg/Kg		65	70 - 130	3	20

	MSD	MSD	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
1-Chlorooctane	73		70 - 130
o-Terphenyl	64	S1-	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: MB 880-70593/1-A

Matrix: Solid

Analysis Batch: 70523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70593

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/10/24 15:47	01/10/24 19:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/10/24 15:47	01/10/24 19:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/10/24 15:47	01/10/24 19:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			01/10/24 15:47	01/10/24 19:46	1
o-Terphenyl	145	S1+	70 - 130			01/10/24 15:47	01/10/24 19:46	1

Lab Sample ID: LCS 880-70593/2-A

Matrix: Solid

Analysis Batch: 70523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	925.0		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	919.6		mg/Kg		92	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	114		70 - 130				
o-Terphenyl	137	S1+	70 - 130				

Lab Sample ID: LCSD 880-70593/3-A

Matrix: Solid

Analysis Batch: 70523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70593

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	906.6		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	929.4		mg/Kg		93	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	110		70 - 130						

Lab Sample ID: 880-37681-A-1-F MS

Matrix: Solid

Analysis Batch: 70523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 70593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1255		mg/Kg		121	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	868.2		mg/Kg		83	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: 880-37681-A-1-F MS

Matrix: Solid

Analysis Batch: 70523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 70593

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 880-37681-A-1-G MSD

Matrix: Solid

Analysis Batch: 70523

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 70593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1250		mg/Kg		121	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	854.4		mg/Kg		81	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	101		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA2

Lab Sample ID: MB 880-70539/1-A

Matrix: Solid

Analysis Batch: 70525

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70539

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA2	<50.0	U	50.0	mg/Kg		01/10/24 08:00	01/10/24 08:03	1
Diesel Range Organics (Over C10-C28) - RA2	<50.0	U	50.0	mg/Kg		01/10/24 08:00	01/10/24 08:03	1
Oil Range Organics (Over C28-C36) - RA2	<50.0	U	50.0	mg/Kg		01/10/24 08:00	01/10/24 08:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane - RA2	94		70 - 130			01/10/24 08:00	01/10/24 08:03	1
o-Terphenyl - RA2	98		70 - 130			01/10/24 08:00	01/10/24 08:03	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70455/1-A

Matrix: Solid

Analysis Batch: 70532

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/10/24 19:22	1

Lab Sample ID: LCS 880-70455/2-A

Matrix: Solid

Analysis Batch: 70532

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.8		mg/Kg		100	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-70455/3-A
Matrix: Solid
Analysis Batch: 70532

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-5902-A-16-B MS
Matrix: Solid
Analysis Batch: 70532

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	90.9		251	340.8		mg/Kg		100	90 - 110

Lab Sample ID: 890-5902-A-16-C MSD
Matrix: Solid
Analysis Batch: 70532

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	90.9		251	340.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-70456/1-A
Matrix: Solid
Analysis Batch: 70534

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/10/24 17:45	1

Lab Sample ID: LCS 880-70456/2-A
Matrix: Solid
Analysis Batch: 70534

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.9		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-70456/3-A
Matrix: Solid
Analysis Batch: 70534

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	253.7		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-5904-10 MS
Matrix: Solid
Analysis Batch: 70534

Client Sample ID: FS 10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	43.3		251	283.9		mg/Kg		96	90 - 110

Lab Sample ID: 890-5904-10 MSD
Matrix: Solid
Analysis Batch: 70534

Client Sample ID: FS 10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	43.3		251	283.6		mg/Kg		96	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

GC VOA

Prep Batch: 70505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-1	FS 01	Total/NA	Solid	5035	
890-5904-2	FS 02	Total/NA	Solid	5035	
890-5904-3	FS 03	Total/NA	Solid	5035	
890-5904-4	FS 04	Total/NA	Solid	5035	
890-5904-5	FS 05	Total/NA	Solid	5035	
890-5904-6	FS 06	Total/NA	Solid	5035	
890-5904-7	FS 07	Total/NA	Solid	5035	
890-5904-8	FS 08	Total/NA	Solid	5035	
890-5904-9	FS 09	Total/NA	Solid	5035	
890-5904-10	FS 10	Total/NA	Solid	5035	
890-5904-11	FS 11	Total/NA	Solid	5035	
890-5904-12	FS 12	Total/NA	Solid	5035	
890-5904-13	FS 13	Total/NA	Solid	5035	
890-5904-14	FS 14	Total/NA	Solid	5035	
890-5904-15	SW 01	Total/NA	Solid	5035	
890-5904-16	SW 02	Total/NA	Solid	5035	
890-5904-17	SW 03	Total/NA	Solid	5035	
MB 880-70505/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70505/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70505/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5904-1 MS	FS 01	Total/NA	Solid	5035	
890-5904-1 MSD	FS 01	Total/NA	Solid	5035	

Prep Batch: 70509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70509/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 70625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-1	FS 01	Total/NA	Solid	8021B	70505
890-5904-2	FS 02	Total/NA	Solid	8021B	70505
890-5904-3	FS 03	Total/NA	Solid	8021B	70505
890-5904-4	FS 04	Total/NA	Solid	8021B	70505
890-5904-5	FS 05	Total/NA	Solid	8021B	70505
890-5904-6	FS 06	Total/NA	Solid	8021B	70505
890-5904-7	FS 07	Total/NA	Solid	8021B	70505
890-5904-8	FS 08	Total/NA	Solid	8021B	70505
890-5904-9	FS 09	Total/NA	Solid	8021B	70505
890-5904-10	FS 10	Total/NA	Solid	8021B	70505
890-5904-11	FS 11	Total/NA	Solid	8021B	70505
890-5904-12	FS 12	Total/NA	Solid	8021B	70505
890-5904-13	FS 13	Total/NA	Solid	8021B	70505
890-5904-14	FS 14	Total/NA	Solid	8021B	70505
890-5904-15	SW 01	Total/NA	Solid	8021B	70505
890-5904-16	SW 02	Total/NA	Solid	8021B	70505
890-5904-17	SW 03	Total/NA	Solid	8021B	70505
MB 880-70505/5-A	Method Blank	Total/NA	Solid	8021B	70505
MB 880-70509/5-A	Method Blank	Total/NA	Solid	8021B	70509
LCS 880-70505/1-A	Lab Control Sample	Total/NA	Solid	8021B	70505
LCSD 880-70505/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70505
890-5904-1 MS	FS 01	Total/NA	Solid	8021B	70505

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

GC VOA (Continued)

Analysis Batch: 70625 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-1 MSD	FS 01	Total/NA	Solid	8021B	70505

Analysis Batch: 70775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-1	FS 01	Total/NA	Solid	Total BTEX	
890-5904-2	FS 02	Total/NA	Solid	Total BTEX	
890-5904-3	FS 03	Total/NA	Solid	Total BTEX	
890-5904-4	FS 04	Total/NA	Solid	Total BTEX	
890-5904-5	FS 05	Total/NA	Solid	Total BTEX	
890-5904-6	FS 06	Total/NA	Solid	Total BTEX	
890-5904-7	FS 07	Total/NA	Solid	Total BTEX	
890-5904-8	FS 08	Total/NA	Solid	Total BTEX	
890-5904-9	FS 09	Total/NA	Solid	Total BTEX	
890-5904-10	FS 10	Total/NA	Solid	Total BTEX	
890-5904-11	FS 11	Total/NA	Solid	Total BTEX	
890-5904-12	FS 12	Total/NA	Solid	Total BTEX	
890-5904-13	FS 13	Total/NA	Solid	Total BTEX	
890-5904-14	FS 14	Total/NA	Solid	Total BTEX	
890-5904-15	SW 01	Total/NA	Solid	Total BTEX	
890-5904-16	SW 02	Total/NA	Solid	Total BTEX	
890-5904-17	SW 03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-6	FS 06	Total/NA	Solid	8015B NM	70593
890-5904-7	FS 07	Total/NA	Solid	8015B NM	70593
890-5904-8	FS 08	Total/NA	Solid	8015B NM	70593
890-5904-9	FS 09	Total/NA	Solid	8015B NM	70593
890-5904-10	FS 10	Total/NA	Solid	8015B NM	70593
890-5904-11	FS 11	Total/NA	Solid	8015B NM	70593
890-5904-12	FS 12	Total/NA	Solid	8015B NM	70593
890-5904-13	FS 13	Total/NA	Solid	8015B NM	70593
MB 880-70593/1-A	Method Blank	Total/NA	Solid	8015B NM	70593
LCS 880-70593/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70593
LCSD 880-70593/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70593
880-37681-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	70593
880-37681-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70593

Analysis Batch: 70525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-1	FS 01	Total/NA	Solid	8015B NM	70539
890-5904-2	FS 02	Total/NA	Solid	8015B NM	70539
890-5904-3	FS 03	Total/NA	Solid	8015B NM	70539
890-5904-4	FS 04	Total/NA	Solid	8015B NM	70539
890-5904-5	FS 05	Total/NA	Solid	8015B NM	70539
890-5904-14	FS 14	Total/NA	Solid	8015B NM	70539
890-5904-15	SW 01	Total/NA	Solid	8015B NM	70539
890-5904-16	SW 02	Total/NA	Solid	8015B NM	70539
890-5904-17	SW 03	Total/NA	Solid	8015B NM	70539

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

GC Semi VOA (Continued)

Analysis Batch: 70525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70539/1-A - RA2	Method Blank	Total/NA	Solid	8015B NM	70539
LCS 880-70539/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70539
LCSD 880-70539/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70539
890-5904-1 MS	FS 01	Total/NA	Solid	8015B NM	70539
890-5904-1 MSD	FS 01	Total/NA	Solid	8015B NM	70539

Prep Batch: 70539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-1	FS 01	Total/NA	Solid	8015NM Prep	
890-5904-2	FS 02	Total/NA	Solid	8015NM Prep	
890-5904-3	FS 03	Total/NA	Solid	8015NM Prep	
890-5904-4	FS 04	Total/NA	Solid	8015NM Prep	
890-5904-5	FS 05	Total/NA	Solid	8015NM Prep	
890-5904-14	FS 14	Total/NA	Solid	8015NM Prep	
890-5904-15	SW 01	Total/NA	Solid	8015NM Prep	
890-5904-16	SW 02	Total/NA	Solid	8015NM Prep	
890-5904-17	SW 03	Total/NA	Solid	8015NM Prep	
MB 880-70539/1-A - RA2	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70539/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70539/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5904-1 MS	FS 01	Total/NA	Solid	8015NM Prep	
890-5904-1 MSD	FS 01	Total/NA	Solid	8015NM Prep	

Prep Batch: 70593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-6	FS 06	Total/NA	Solid	8015NM Prep	
890-5904-7	FS 07	Total/NA	Solid	8015NM Prep	
890-5904-8	FS 08	Total/NA	Solid	8015NM Prep	
890-5904-9	FS 09	Total/NA	Solid	8015NM Prep	
890-5904-10	FS 10	Total/NA	Solid	8015NM Prep	
890-5904-11	FS 11	Total/NA	Solid	8015NM Prep	
890-5904-12	FS 12	Total/NA	Solid	8015NM Prep	
890-5904-13	FS 13	Total/NA	Solid	8015NM Prep	
MB 880-70593/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70593/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70593/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37681-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-37681-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-1	FS 01	Total/NA	Solid	8015 NM	
890-5904-2	FS 02	Total/NA	Solid	8015 NM	
890-5904-3	FS 03	Total/NA	Solid	8015 NM	
890-5904-4	FS 04	Total/NA	Solid	8015 NM	
890-5904-5	FS 05	Total/NA	Solid	8015 NM	
890-5904-6	FS 06	Total/NA	Solid	8015 NM	
890-5904-7	FS 07	Total/NA	Solid	8015 NM	
890-5904-8	FS 08	Total/NA	Solid	8015 NM	
890-5904-9	FS 09	Total/NA	Solid	8015 NM	
890-5904-10	FS 10	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

GC Semi VOA (Continued)

Analysis Batch: 70614 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-11	FS 11	Total/NA	Solid	8015 NM	
890-5904-12	FS 12	Total/NA	Solid	8015 NM	
890-5904-13	FS 13	Total/NA	Solid	8015 NM	
890-5904-14	FS 14	Total/NA	Solid	8015 NM	
890-5904-15	SW 01	Total/NA	Solid	8015 NM	
890-5904-16	SW 02	Total/NA	Solid	8015 NM	
890-5904-17	SW 03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 70455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-1	FS 01	Soluble	Solid	DI Leach	
890-5904-2	FS 02	Soluble	Solid	DI Leach	
MB 880-70455/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70455/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70455/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5902-A-16-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5902-A-16-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 70456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-3	FS 03	Soluble	Solid	DI Leach	
890-5904-4	FS 04	Soluble	Solid	DI Leach	
890-5904-5	FS 05	Soluble	Solid	DI Leach	
890-5904-6	FS 06	Soluble	Solid	DI Leach	
890-5904-7	FS 07	Soluble	Solid	DI Leach	
890-5904-8	FS 08	Soluble	Solid	DI Leach	
890-5904-9	FS 09	Soluble	Solid	DI Leach	
890-5904-10	FS 10	Soluble	Solid	DI Leach	
890-5904-11	FS 11	Soluble	Solid	DI Leach	
890-5904-12	FS 12	Soluble	Solid	DI Leach	
890-5904-13	FS 13	Soluble	Solid	DI Leach	
890-5904-14	FS 14	Soluble	Solid	DI Leach	
890-5904-15	SW 01	Soluble	Solid	DI Leach	
890-5904-16	SW 02	Soluble	Solid	DI Leach	
890-5904-17	SW 03	Soluble	Solid	DI Leach	
MB 880-70456/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70456/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70456/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5904-10 MS	FS 10	Soluble	Solid	DI Leach	
890-5904-10 MSD	FS 10	Soluble	Solid	DI Leach	

Analysis Batch: 70532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-1	FS 01	Soluble	Solid	300.0	70455
890-5904-2	FS 02	Soluble	Solid	300.0	70455
MB 880-70455/1-A	Method Blank	Soluble	Solid	300.0	70455
LCS 880-70455/2-A	Lab Control Sample	Soluble	Solid	300.0	70455
LCSD 880-70455/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70455
890-5902-A-16-B MS	Matrix Spike	Soluble	Solid	300.0	70455

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

HPLC/IC (Continued)

Analysis Batch: 70532 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5902-A-16-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	70455

Analysis Batch: 70534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5904-3	FS 03	Soluble	Solid	300.0	70456
890-5904-4	FS 04	Soluble	Solid	300.0	70456
890-5904-5	FS 05	Soluble	Solid	300.0	70456
890-5904-6	FS 06	Soluble	Solid	300.0	70456
890-5904-7	FS 07	Soluble	Solid	300.0	70456
890-5904-8	FS 08	Soluble	Solid	300.0	70456
890-5904-9	FS 09	Soluble	Solid	300.0	70456
890-5904-10	FS 10	Soluble	Solid	300.0	70456
890-5904-11	FS 11	Soluble	Solid	300.0	70456
890-5904-12	FS 12	Soluble	Solid	300.0	70456
890-5904-13	FS 13	Soluble	Solid	300.0	70456
890-5904-14	FS 14	Soluble	Solid	300.0	70456
890-5904-15	SW 01	Soluble	Solid	300.0	70456
890-5904-16	SW 02	Soluble	Solid	300.0	70456
890-5904-17	SW 03	Soluble	Solid	300.0	70456
MB 880-70456/1-A	Method Blank	Soluble	Solid	300.0	70456
LCS 880-70456/2-A	Lab Control Sample	Soluble	Solid	300.0	70456
LCSD 880-70456/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70456
890-5904-10 MS	FS 10	Soluble	Solid	300.0	70456
890-5904-10 MSD	FS 10	Soluble	Solid	300.0	70456

Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 01
Date Collected: 01/04/24 13:15
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-1
Matrix: Solid

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	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 01:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 01:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/10/24 10:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70539	01/10/24 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70525	01/10/24 10:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70455	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		1			70532	01/10/24 21:51	CH	EET MID

Client Sample ID: FS 02
Date Collected: 01/04/24 13:20
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 02:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 02:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/10/24 12:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70539	01/10/24 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70525	01/10/24 12:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70455	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		1			70532	01/10/24 21:56	CH	EET MID

Client Sample ID: FS 03
Date Collected: 01/04/24 15:20
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 02:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 02:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/10/24 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70539	01/10/24 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70525	01/10/24 12:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		1			70534	01/10/24 18:40	CH	EET MID

Client Sample ID: FS 04
Date Collected: 01/04/24 15:25
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 03:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 03:13	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 04
Date Collected: 01/04/24 15:25
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70614	01/10/24 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70539	01/10/24 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70525	01/10/24 12:49	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		5			70534	01/10/24 18:47	CH	EET MID

Client Sample ID: FS 05
Date Collected: 01/05/24 10:30
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 03:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 03:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/10/24 13:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	70539	01/10/24 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70525	01/10/24 13:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		5			70534	01/10/24 19:07	CH	EET MID

Client Sample ID: FS 06
Date Collected: 01/05/24 12:35
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 04:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 04:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/10/24 23:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70593	01/10/24 15:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70523	01/10/24 23:46	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		1			70534	01/10/24 19:14	CH	EET MID

Client Sample ID: FS 07
Date Collected: 01/05/24 12:40
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 04:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 04:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/11/24 00:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	70593	01/10/24 15:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70523	01/11/24 00:08	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 07
Date Collected: 01/05/24 12:40
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		5			70534	01/10/24 19:21	CH	EET MID

Client Sample ID: FS 08
Date Collected: 01/05/24 12:45
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 04:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 04:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/11/24 00:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70593	01/10/24 15:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70523	01/11/24 00:29	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		5			70534	01/10/24 19:28	CH	EET MID

Client Sample ID: FS 09
Date Collected: 01/05/24 12:50
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 05:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 05:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/11/24 00:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70593	01/10/24 15:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70523	01/11/24 00:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		5			70534	01/10/24 19:35	CH	EET MID

Client Sample ID: FS 10
Date Collected: 01/05/24 14:10
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-10
Matrix: Solid

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	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 05:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 05:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/11/24 01:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70593	01/10/24 15:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70523	01/11/24 01:32	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		1			70534	01/10/24 19:42	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 11
Date Collected: 01/05/24 14:15
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 07:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 07:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/11/24 01:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70593	01/10/24 15:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70523	01/11/24 01:53	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		1			70534	01/10/24 20:02	CH	EET MID

Client Sample ID: FS 12
Date Collected: 01/05/24 14:20
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 08:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 08:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/11/24 02:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	70593	01/10/24 15:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70523	01/11/24 02:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		1			70534	01/10/24 20:09	CH	EET MID

Client Sample ID: FS 13
Date Collected: 01/05/24 14:25
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 08:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 08:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/11/24 02:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70593	01/10/24 15:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70523	01/11/24 02:36	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		1			70534	01/10/24 20:29	CH	EET MID

Client Sample ID: FS 14
Date Collected: 01/05/24 14:30
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-14
Matrix: Solid

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	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 09:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 09:01	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 14
Date Collected: 01/05/24 14:30
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70614	01/10/24 16:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70539	01/10/24 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70525	01/10/24 16:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		5			70534	01/10/24 20:36	CH	EET MID

Client Sample ID: SW 01
Date Collected: 01/05/24 11:30
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 09:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 09:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/10/24 17:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70539	01/10/24 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70525	01/10/24 17:12	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		1			70534	01/10/24 20:43	CH	EET MID

Client Sample ID: SW 02
Date Collected: 01/05/24 14:35
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-16
Matrix: Solid

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	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 09:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 09:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/10/24 17:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	70539	01/10/24 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70525	01/10/24 17:34	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		1			70534	01/10/24 20:50	CH	EET MID

Client Sample ID: SW 03
Date Collected: 01/05/24 14:40
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	70505	01/09/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70625	01/12/24 10:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70775	01/12/24 10:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			70614	01/10/24 17:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	70539	01/10/24 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70525	01/10/24 17:56	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: SW 03
Date Collected: 01/05/24 14:40
Date Received: 01/05/24 16:13

Lab Sample ID: 890-5904-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	70456	01/09/24 11:00	SA	EET MID
Soluble	Analysis	300.0		1			70534	01/10/24 20:57	CH	EET MID

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

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 500 CTB

Job ID: 890-5904-1
SDG: 03C1558151 / 03C1558187

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5904-1	FS 01	Solid	01/04/24 13:15	01/05/24 16:13	4'
890-5904-2	FS 02	Solid	01/04/24 13:20	01/05/24 16:13	4'
890-5904-3	FS 03	Solid	01/04/24 15:20	01/05/24 16:13	4'
890-5904-4	FS 04	Solid	01/04/24 15:25	01/05/24 16:13	4'
890-5904-5	FS 05	Solid	01/05/24 10:30	01/05/24 16:13	4'
890-5904-6	FS 06	Solid	01/05/24 12:35	01/05/24 16:13	4'
890-5904-7	FS 07	Solid	01/05/24 12:40	01/05/24 16:13	4'
890-5904-8	FS 08	Solid	01/05/24 12:45	01/05/24 16:13	4'
890-5904-9	FS 09	Solid	01/05/24 12:50	01/05/24 16:13	4'
890-5904-10	FS 10	Solid	01/05/24 14:10	01/05/24 16:13	4'
890-5904-11	FS 11	Solid	01/05/24 14:15	01/05/24 16:13	4'
890-5904-12	FS 12	Solid	01/05/24 14:20	01/05/24 16:13	4'
890-5904-13	FS 13	Solid	01/05/24 14:25	01/05/24 16:13	4'
890-5904-14	FS 14	Solid	01/05/24 14:30	01/05/24 16:13	4'
890-5904-15	SW 01	Solid	01/05/24 11:30	01/05/24 16:13	0 - 4'
890-5904-16	SW 02	Solid	01/05/24 14:35	01/05/24 16:13	0 - 4'
890-5904-17	SW 03	Solid	01/05/24 14:40	01/05/24 16:13	0 - 4'

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 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

Environment Testing

Xenco



Work Order No:

www.xenco.com Page 1 of 2

Project Manager:	Ben Belli	Bill to: (if different)	Garrett Green
Company Name:	Ensolium, LLC	Company Name:	XIO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0853	Email:	bbelli@ensolum.com

Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other:

ANALYSIS REQUEST		Preservative Codes						
Project Name:	REMUDA 500 CTB	None: NO	DI Water: H ₂ O					
Project Number:	03C155815/03C1558187	Cool: Cool	MeOH: Me					
Project Location:	32-27003-103-73669	HCL: HC	HNO ₃ : HN					
Sampler's Name:	Mercuth Roberts	H ₂ SO ₄ : H ₂	NaOH: Na					
PO #:		H ₃ PO ₄ : HP						
SAMPLE RECEIPT Samples Received Intact: Yes No Cooler Custody Seals: Yes No Sample Custody Seals: Yes No Total Containers:		NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC						
Turn Around: ☒ Routine ☐ Rush Due Date: TAT starts the day received by the lab, if received by 4:30pm Temp Blank: Yes No Thermometer ID: 710007 Correction Factor: 0.2 Temperature Reading: 0.6 Corrected Temperature: 0.4		890-5904 Chain of Custody 						
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Sample Comments
FS01	S	1/4/24	1315	4'	C	1	Br tex	Incident #5:
FS02		1/4/24	1320			1	Chendes	NAPP2234832761
FS03		1/4/24	1520			1		NAPP2306544797
FS04		1/4/24	1525			1		
FS05		1/5/24	1030			1		Cost Center:
FS06			1235			1		1067601001
FS07			1240			1		
FS08			1245			1		
FS09			1250			1		
FS10			1410			1		

Total 2007/6010	2008/6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

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 negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Mercuth Roberts	bbelli	11-17 1/5 ²			

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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

Environment Testing

Xenco



Work Order No: _____

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Project Manager:	Ben Bell	Bill to: (if different)	Garrett Green
Company Name:	Enseum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	bbell@enseum.com

Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: _____

Project Name:		Turn Around		Parameters		Preservative Codes	
Project Number:	Project Location:	Due Date:	TAT starts the day received by the lab, if received by 4:30pm	Pres. Code	None: NO	DI Water: H ₂ O	
REMUDA 500 CIB	0301558151/0301558187	32-27003-103-93609			Cool: Cool	MeOH: Me	
Sampler's Name:	Meredith Roberts				HCL: HC	HNO ₃ : HN	
P.O. #:					H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	H ₃ PO ₄ : HP		
Samples Received Intact:	Yes No	Thermometer ID:			NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes No N/A	Correction Factor:			Na ₂ S ₂ O ₅ : NaSO ₃		
Sample Custody Seals:	Yes No N/A	Temperature Reading:			Zn Acetate+NaOH: Zn		
Total Containers:		Corrected Temperature:			NaOH+Ascorbic Acid: SAPC		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
FS11	S	1/5/24	1415	4'	C	1	Incident #51
FS12	S	1/5/24	1420	4'	C	1	nAPP2234832761
FS13	S	1/5/24	1425	4'	C	1	nAPP230654477
FS14	S	1/5/24	1430	4'	C	1	Cost Center:
SW01	S	1/5/24	1435	0-4'	C	1	1067601001
SW02	S	1/5/24	1440	4'	C	1	mroberts@enseum.com
SW03	S	1/5/24	1440	4'	C	1	

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 SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

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 negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1/13/24			

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5904-1
SDG Number: 03C1558151 / 03C1558187

Login Number: 5904
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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: 890-5904-1
SDG Number: 03C1558151 / 03C1558187

Login Number: 5904
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/09/24 01:43 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 1/16/2024 9:54:22 AM

JOB DESCRIPTION

REMUDA 500 CTB

03C1558151 / 03C1558187

JOB NUMBER

890-5930-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
1/16/2024 9:54:22 AM

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

Client: Ensolum
Project/Site: REMUDA 500 CTB

Laboratory Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

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Definitions/Glossary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project: REMUDA 500 CTB

Job ID: 890-5930-1

Job ID: 890-5930-1

Eurofins Carlsbad

Job Narrative
890-5930-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/9/2024 2:54 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 -1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS 15 (890-5930-1), FS 16 (890-5930-2), FS 17 (890-5930-3), FS 18 (890-5930-4), FS 19 (890-5930-5), FS 20 (890-5930-6), FS 21 (890-5930-7), FS 22 (890-5930-8), FS 23 (890-5930-9), FS 24 (890-5930-10), FS 25 (890-5930-11), FS 26 (890-5930-12), FS 27 (890-5930-13), FS 28 (890-5930-14), FS 29 (890-5930-15), FS 30 (890-5930-16), FS 31 (890-5930-17), FS 32 (890-5930-18), FS 33 (890-5930-19), FS 34 (890-5930-20), FS 35 (890-5930-21), FS 36 (890-5930-22), FS 37 (890-5930-23), FS 38 (890-5930-24), FS 39 (890-5930-25), FS 40 (890-5930-26), FS 41 (890-5930-27), FS 42 (890-5930-28), FS 43 (890-5930-29), FS 44 (890-5930-30), FS 45 (890-5930-31), FS 46 (890-5930-32), FS 47 (890-5930-33), FS 48 (890-5930-34), FS 49 (890-5930-35), FS 50 (890-5930-36), FS 51 (890-5930-37), FS 52 (890-5930-38), FS 53 (890-5930-39), FS 54 (890-5930-40), FS 55 (890-5930-41), FS 56 (890-5930-42), FS 57 (890-5930-43), SW 04 (890-5930-44), SW 05 (890-5930-45), SW 06 (890-5930-46) and SW 07 (890-5930-47).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS 17 (890-5930-3), FS 21 (890-5930-7), FS 22 (890-5930-8), FS 28 (890-5930-14), FS 57 (890-5930-43) and SW 05 (890-5930-45). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-70845 and analytical batch 880-70829 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS 15 (890-5930-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-70841 and analytical batch 880-70829 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 880-70666 and analytical batch 880-70705 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS 16 (890-5930-2), FS 17 (890-5930-3), FS 18 (890-5930-4), FS 19 (890-5930-5), FS 20 (890-5930-6), FS 21 (890-5930-7), FS 22 (890-5930-8), FS 23 (890-5930-9), FS 24 (890-5930-10), FS 25 (890-5930-11), FS 26 (890-5930-12), FS 27 (890-5930-13), FS 28 (890-5930-14), FS 29 (890-5930-15), FS 30 (890-5930-16), FS 31 (890-5930-17), FS 32 (890-5930-18), FS 33 (890-5930-19), FS 34 (890-5930-20), (890-5930-A-8-D MS) and (890-5930-A-8-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70666 and

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Case Narrative

Client: Ensolum
Project: REMUDA 500 CTB

Job ID: 890-5930-1

Job ID: 890-5930-1 (Continued)

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analytical batch 880-70705 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 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-70667 and 880-70668 and analytical batch 880-70803 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS 35 (890-5930-21), FS 36 (890-5930-22), FS 37 (890-5930-23), FS 38 (890-5930-24), FS 39 (890-5930-25), FS 40 (890-5930-26), FS 41 (890-5930-27), FS 42 (890-5930-28), FS 43 (890-5930-29), FS 44 (890-5930-30), FS 45 (890-5930-31), FS 46 (890-5930-32), FS 47 (890-5930-33), FS 48 (890-5930-34), FS 49 (890-5930-35), FS 50 (890-5930-36), FS 51 (890-5930-37), FS 52 (890-5930-38), FS 53 (890-5930-39), FS 54 (890-5930-40), FS 55 (890-5930-41), FS 56 (890-5930-42), FS 57 (890-5930-43), SW 04 (890-5930-44), SW 05 (890-5930-45), SW 06 (890-5930-46), SW 07 (890-5930-47), (890-5930-A-21-E MS), (890-5930-A-21-F MSD), (890-5930-A-41-F MS) and (890-5930-A-41-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70667 and analytical batch 880-70803 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.

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 880-70628 and analytical batch 880-70693 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.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-70629 and analytical batch 880-70694 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.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-70630 and analytical batch 880-70695 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.

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 15

Lab Sample ID: 890-5930-1

Date Collected: 01/09/24 08:00

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/15/24 08:59	01/15/24 17:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/15/24 08:59	01/15/24 17:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/15/24 08:59	01/15/24 17:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/15/24 08:59	01/15/24 17:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/15/24 08:59	01/15/24 17:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/15/24 08:59	01/15/24 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57	S1-	70 - 130	01/15/24 08:59	01/15/24 17:07	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/15/24 08:59	01/15/24 17:07	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			01/15/24 17:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			01/12/24 11:38	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	<50.4	U	50.4	mg/Kg		01/11/24 14:47	01/12/24 11:38	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/11/24 14:47	01/12/24 11:38	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/11/24 14:47	01/12/24 11:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	01/11/24 14:47	01/12/24 11:38	1
o-Terphenyl	118		70 - 130	01/11/24 14:47	01/12/24 11:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.9	F1	4.98	mg/Kg			01/11/24 19:53	1

Client Sample ID: FS 16

Lab Sample ID: 890-5930-2

Date Collected: 01/09/24 08:05

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/15/24 08:59	01/15/24 11:50	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/15/24 08:59	01/15/24 11:50	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/15/24 08:59	01/15/24 11:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/15/24 08:59	01/15/24 11:50	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/15/24 08:59	01/15/24 11:50	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/15/24 08:59	01/15/24 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	01/15/24 08:59	01/15/24 11:50	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 16

Lab Sample ID: 890-5930-2

Date Collected: 01/09/24 08:05

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	73		70 - 130	01/15/24 08:59	01/15/24 11:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/15/24 11:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			01/12/24 12:00	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	<50.2	U	50.2	mg/Kg		01/11/24 14:47	01/12/24 12:00	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		01/11/24 14:47	01/12/24 12:00	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/11/24 14:47	01/12/24 12:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130			01/11/24 14:47	01/12/24 12:00	1
o-Terphenyl	137	S1+	70 - 130			01/11/24 14:47	01/12/24 12:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		5.00	mg/Kg			01/11/24 20:13	1

Client Sample ID: FS 17

Lab Sample ID: 890-5930-3

Date Collected: 01/09/24 08:10

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 12:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 12:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 12:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/15/24 08:59	01/15/24 12:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 12:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/15/24 08:59	01/15/24 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	01/15/24 08:59	01/15/24 12:10	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	01/15/24 08:59	01/15/24 12:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/15/24 12:10	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			01/12/24 12:22	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 17

Lab Sample ID: 890-5930-3

Date Collected: 01/09/24 08:10

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 2'

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	<50.0	U	50.0	mg/Kg		01/11/24 14:47	01/12/24 12:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/11/24 14:47	01/12/24 12:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/11/24 14:47	01/12/24 12:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130			01/11/24 14:47	01/12/24 12:22	1
o-Terphenyl	152	S1+	70 - 130			01/11/24 14:47	01/12/24 12:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		4.95	mg/Kg			01/11/24 20:20	1

Client Sample ID: FS 18

Lab Sample ID: 890-5930-4

Date Collected: 01/09/24 08:15

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 12:31	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 12:31	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 12:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/15/24 08:59	01/15/24 12:31	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 12:31	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/15/24 08:59	01/15/24 12:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			01/15/24 08:59	01/15/24 12:31	1
1,4-Difluorobenzene (Surr)	84		70 - 130			01/15/24 08:59	01/15/24 12:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/15/24 12:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			01/12/24 12:44	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	<50.2	U	50.2	mg/Kg		01/11/24 14:47	01/12/24 12:44	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		01/11/24 14:47	01/12/24 12:44	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/11/24 14:47	01/12/24 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130			01/11/24 14:47	01/12/24 12:44	1
o-Terphenyl	148	S1+	70 - 130			01/11/24 14:47	01/12/24 12:44	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 18

Lab Sample ID: 890-5930-4

Date Collected: 01/09/24 08:15

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.3		4.99	mg/Kg			01/11/24 20:27	1

Client Sample ID: FS 19

Lab Sample ID: 890-5930-5

Date Collected: 01/09/24 08:20

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 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		01/15/24 08:59	01/15/24 12:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/15/24 08:59	01/15/24 12:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/15/24 08:59	01/15/24 12:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/15/24 08:59	01/15/24 12:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/15/24 08:59	01/15/24 12:51	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/15/24 08:59	01/15/24 12:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			01/15/24 08:59	01/15/24 12:51	1
1,4-Difluorobenzene (Surr)	81		70 - 130			01/15/24 08:59	01/15/24 12:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/15/24 12:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			01/12/24 13:06	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	<50.4	U	50.4	mg/Kg		01/11/24 14:47	01/12/24 13:06	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/11/24 14:47	01/12/24 13:06	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/11/24 14:47	01/12/24 13:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130			01/11/24 14:47	01/12/24 13:06	1
o-Terphenyl	148	S1+	70 - 130			01/11/24 14:47	01/12/24 13:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.8		5.04	mg/Kg			01/11/24 20:34	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 20

Lab Sample ID: 890-5930-6

Date Collected: 01/09/24 08:25

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 2'

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		01/15/24 08:59	01/15/24 17:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 17:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 17:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/15/24 08:59	01/15/24 17:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 17:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/15/24 08:59	01/15/24 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	01/15/24 08:59	01/15/24 17:27	1
1,4-Difluorobenzene (Surr)	85		70 - 130	01/15/24 08:59	01/15/24 17:27	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			01/15/24 17:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/12/24 13:28	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	<49.7	U	49.7	mg/Kg		01/11/24 14:47	01/12/24 13:28	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/11/24 14:47	01/12/24 13:28	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/11/24 14:47	01/12/24 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130	01/11/24 14:47	01/12/24 13:28	1
o-Terphenyl	147	S1+	70 - 130	01/11/24 14:47	01/12/24 13:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.5		4.97	mg/Kg			01/11/24 20:54	1

Client Sample ID: FS 21

Lab Sample ID: 890-5930-7

Date Collected: 01/09/24 08:30

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/15/24 08:59	01/15/24 17:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/15/24 08:59	01/15/24 17:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/15/24 08:59	01/15/24 17:48	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/15/24 08:59	01/15/24 17:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/15/24 08:59	01/15/24 17:48	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/15/24 08:59	01/15/24 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	01/15/24 08:59	01/15/24 17:48	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 21

Lab Sample ID: 890-5930-7

Date Collected: 01/09/24 08:30

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	01/15/24 08:59	01/15/24 17:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			01/15/24 17:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/12/24 13:50	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		01/11/24 14:47	01/12/24 13:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/11/24 14:47	01/12/24 13:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/11/24 14:47	01/12/24 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130			01/11/24 14:47	01/12/24 13:50	1
o-Terphenyl	149	S1+	70 - 130			01/11/24 14:47	01/12/24 13:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		4.96	mg/Kg			01/11/24 21:01	1

Client Sample ID: FS 22

Lab Sample ID: 890-5930-8

Date Collected: 01/09/24 08:35

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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		01/15/24 08:59	01/15/24 18:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 18:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 18:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/15/24 08:59	01/15/24 18:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 18:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/15/24 08:59	01/15/24 18:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			01/15/24 08:59	01/15/24 18:08	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130			01/15/24 08:59	01/15/24 18:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/15/24 18:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/12/24 10:31	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 22

Lab Sample ID: 890-5930-8

Date Collected: 01/09/24 08:35

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 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	<49.8	U F1	49.8	mg/Kg		01/11/24 14:47	01/12/24 10:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8	mg/Kg		01/11/24 14:47	01/12/24 10:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/11/24 14:47	01/12/24 10:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130			01/11/24 14:47	01/12/24 10:31	1
o-Terphenyl	135	S1+	70 - 130			01/11/24 14:47	01/12/24 10:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	239		4.97	mg/Kg			01/11/24 21:08	1

Client Sample ID: FS 23

Lab Sample ID: 890-5930-9

Date Collected: 01/09/24 08:40

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/15/24 08:59	01/15/24 18:29	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/15/24 08:59	01/15/24 18:29	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/15/24 08:59	01/15/24 18:29	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/15/24 08:59	01/15/24 18:29	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/15/24 08:59	01/15/24 18:29	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/15/24 08:59	01/15/24 18:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			01/15/24 08:59	01/15/24 18:29	1
1,4-Difluorobenzene (Surr)	86		70 - 130			01/15/24 08:59	01/15/24 18:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/15/24 18:29	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			01/12/24 14:12	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	<50.0	U	50.0	mg/Kg		01/11/24 14:47	01/12/24 14:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/11/24 14:47	01/12/24 14:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/11/24 14:47	01/12/24 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	163	S1+	70 - 130			01/11/24 14:47	01/12/24 14:12	1
o-Terphenyl	153	S1+	70 - 130			01/11/24 14:47	01/12/24 14:12	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 23

Lab Sample ID: 890-5930-9

Date Collected: 01/09/24 08:40

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.2		5.05	mg/Kg			01/11/24 21:15	1

Client Sample ID: FS 24

Lab Sample ID: 890-5930-10

Date Collected: 01/09/24 08:45

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 18:50	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 18:50	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 18:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/15/24 08:59	01/15/24 18:50	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 18:50	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/15/24 08:59	01/15/24 18:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			01/15/24 08:59	01/15/24 18:50	1
1,4-Difluorobenzene (Surr)	82		70 - 130			01/15/24 08:59	01/15/24 18:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/15/24 18:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			01/12/24 14:34	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	<50.3	U	50.3	mg/Kg		01/11/24 14:47	01/12/24 14:34	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		01/11/24 14:47	01/12/24 14:34	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		01/11/24 14:47	01/12/24 14:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130			01/11/24 14:47	01/12/24 14:34	1
o-Terphenyl	131	S1+	70 - 130			01/11/24 14:47	01/12/24 14:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.3		5.02	mg/Kg			01/11/24 21:22	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 25

Lab Sample ID: 890-5930-11

Date Collected: 01/09/24 08:50

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 19:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 19:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 19:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/15/24 08:59	01/15/24 19:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/15/24 08:59	01/15/24 19:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/15/24 08:59	01/15/24 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	01/15/24 08:59	01/15/24 19:10	1
1,4-Difluorobenzene (Surr)	76		70 - 130	01/15/24 08:59	01/15/24 19:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/15/24 19:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			01/12/24 15:21	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	<50.1	U	50.1	mg/Kg		01/11/24 14:47	01/12/24 15:21	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		01/11/24 14:47	01/12/24 15:21	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/11/24 14:47	01/12/24 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130	01/11/24 14:47	01/12/24 15:21	1
o-Terphenyl	143	S1+	70 - 130	01/11/24 14:47	01/12/24 15:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.3		4.98	mg/Kg			01/11/24 23:37	1

Client Sample ID: FS 26

Lab Sample ID: 890-5930-12

Date Collected: 01/09/24 08:55

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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		01/15/24 08:59	01/15/24 19:31	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/15/24 08:59	01/15/24 19:31	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/15/24 08:59	01/15/24 19:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/15/24 08:59	01/15/24 19:31	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/15/24 08:59	01/15/24 19:31	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/15/24 08:59	01/15/24 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	01/15/24 08:59	01/15/24 19:31	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 26

Lab Sample ID: 890-5930-12

Date Collected: 01/09/24 08:55

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	01/15/24 08:59	01/15/24 19:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/15/24 19:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			01/12/24 15:43	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	<50.5	U	50.5	mg/Kg		01/11/24 14:47	01/12/24 15:43	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/11/24 14:47	01/12/24 15:43	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/11/24 14:47	01/12/24 15:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130			01/11/24 14:47	01/12/24 15:43	1
o-Terphenyl	141	S1+	70 - 130			01/11/24 14:47	01/12/24 15:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.7		5.00	mg/Kg			01/11/24 23:58	1

Client Sample ID: FS 27

Lab Sample ID: 890-5930-13

Date Collected: 01/09/24 09:00

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/15/24 08:59	01/15/24 19:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/15/24 08:59	01/15/24 19:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/15/24 08:59	01/15/24 19:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/15/24 08:59	01/15/24 19:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/15/24 08:59	01/15/24 19:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/15/24 08:59	01/15/24 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	01/15/24 08:59	01/15/24 19:51	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/15/24 08:59	01/15/24 19:51	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			01/15/24 19:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			01/12/24 16:05	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 27

Lab Sample ID: 890-5930-13

Date Collected: 01/09/24 09:00

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 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	<49.6	U	49.6	mg/Kg		01/11/24 14:47	01/12/24 16:05	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		01/11/24 14:47	01/12/24 16:05	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/11/24 14:47	01/12/24 16:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130			01/11/24 14:47	01/12/24 16:05	1
o-Terphenyl	136	S1+	70 - 130			01/11/24 14:47	01/12/24 16:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		4.95	mg/Kg			01/12/24 00:05	1

Client Sample ID: FS 28

Lab Sample ID: 890-5930-14

Date Collected: 01/09/24 09:05

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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		01/15/24 08:59	01/15/24 20:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 20:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 20:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/15/24 08:59	01/15/24 20:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 20:12	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/15/24 08:59	01/15/24 20:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			01/15/24 08:59	01/15/24 20:12	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130			01/15/24 08:59	01/15/24 20:12	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			01/15/24 20:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/12/24 16:27	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	<49.7	U	49.7	mg/Kg		01/11/24 14:47	01/12/24 16:27	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/11/24 14:47	01/12/24 16:27	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/11/24 14:47	01/12/24 16:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130			01/11/24 14:47	01/12/24 16:27	1
o-Terphenyl	148	S1+	70 - 130			01/11/24 14:47	01/12/24 16:27	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 28

Lab Sample ID: 890-5930-14

Date Collected: 01/09/24 09:05

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.7		4.99	mg/Kg			01/12/24 00:11	1

Client Sample ID: FS 29

Lab Sample ID: 890-5930-15

Date Collected: 01/09/24 09:10

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/15/24 11:09	01/16/24 04:25	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/15/24 11:09	01/16/24 04:25	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/15/24 11:09	01/16/24 04:25	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/15/24 11:09	01/16/24 04:25	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/15/24 11:09	01/16/24 04:25	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/15/24 11:09	01/16/24 04:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			01/15/24 11:09	01/16/24 04:25	1
1,4-Difluorobenzene (Surr)	110		70 - 130			01/15/24 11:09	01/16/24 04:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			01/16/24 04:25	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			01/12/24 16:49	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	<50.0	U	50.0	mg/Kg		01/11/24 14:47	01/12/24 16:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/11/24 14:47	01/12/24 16:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/11/24 14:47	01/12/24 16:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	167	S1+	70 - 130			01/11/24 14:47	01/12/24 16:49	1
o-Terphenyl	150	S1+	70 - 130			01/11/24 14:47	01/12/24 16:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.7		5.04	mg/Kg			01/12/24 00:18	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 30
Date Collected: 01/09/24 09:15
Date Received: 01/09/24 14:54
Sample Depth: 1'

Lab Sample ID: 890-5930-16
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201	mg/Kg		01/15/24 11:09	01/16/24 06:16	1	
Toluene	<0.00201	U	0.00201	mg/Kg		01/15/24 11:09	01/16/24 06:16	1	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/15/24 11:09	01/16/24 06:16	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/15/24 11:09	01/16/24 06:16	1	
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/15/24 11:09	01/16/24 06:16	1	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/15/24 11:09	01/16/24 06:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		70 - 130			01/15/24 11:09	01/16/24 06:16	1	
1,4-Difluorobenzene (Surr)	105		70 - 130			01/15/24 11:09	01/16/24 06:16	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/16/24 06:16	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg			01/12/24 17:11	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		01/11/24 14:47	01/12/24 17:11	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/11/24 14:47	01/12/24 17:11	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/11/24 14:47	01/12/24 17:11	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	161	S1+	70 - 130			01/11/24 14:47	01/12/24 17:11	1	
o-Terphenyl	143	S1+	70 - 130			01/11/24 14:47	01/12/24 17:11	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	86.6		4.97	mg/Kg			01/12/24 00:39	1	

Client Sample ID: FS 31
Date Collected: 01/09/24 09:20
Date Received: 01/09/24 14:54
Sample Depth: 1'

Lab Sample ID: 890-5930-17
Matrix: Solid

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		01/15/24 11:09	01/16/24 06:36	1	
Toluene	<0.00202	U	0.00202	mg/Kg		01/15/24 11:09	01/16/24 06:36	1	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/15/24 11:09	01/16/24 06:36	1	
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/15/24 11:09	01/16/24 06:36	1	
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/15/24 11:09	01/16/24 06:36	1	
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/15/24 11:09	01/16/24 06:36	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		70 - 130			01/15/24 11:09	01/16/24 06:36	1	

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 31

Lab Sample ID: 890-5930-17

Date Collected: 01/09/24 09:20

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	110		70 - 130	01/15/24 11:09	01/16/24 06:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/16/24 06:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			01/12/24 17:34	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	<50.3	U	50.3	mg/Kg		01/11/24 14:47	01/12/24 17:34	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		01/11/24 14:47	01/12/24 17:34	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		01/11/24 14:47	01/12/24 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130			01/11/24 14:47	01/12/24 17:34	1
o-Terphenyl	145	S1+	70 - 130			01/11/24 14:47	01/12/24 17:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.0		4.96	mg/Kg			01/12/24 00:46	1

Client Sample ID: FS 32

Lab Sample ID: 890-5930-18

Date Collected: 01/09/24 09:25

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 06:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 06:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 06:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/15/24 11:09	01/16/24 06:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 06:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/15/24 11:09	01/16/24 06:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			01/15/24 11:09	01/16/24 06:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130			01/15/24 11:09	01/16/24 06:56	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			01/16/24 06:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			01/12/24 17:55	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 32

Lab Sample ID: 890-5930-18

Date Collected: 01/09/24 09:25

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 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	<50.1	U	50.1	mg/Kg		01/11/24 14:47	01/12/24 17:55	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		01/11/24 14:47	01/12/24 17:55	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/11/24 14:47	01/12/24 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130			01/11/24 14:47	01/12/24 17:55	1
o-Terphenyl	134	S1+	70 - 130			01/11/24 14:47	01/12/24 17:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.08		4.97	mg/Kg			01/12/24 00:52	1

Client Sample ID: FS 33

Lab Sample ID: 890-5930-19

Date Collected: 01/09/24 09:30

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 07:17	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 07:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 07:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/15/24 11:09	01/16/24 07:17	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 07:17	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/15/24 11:09	01/16/24 07:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			01/15/24 11:09	01/16/24 07:17	1
1,4-Difluorobenzene (Surr)	112		70 - 130			01/15/24 11:09	01/16/24 07:17	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			01/16/24 07:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			01/12/24 18:16	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	<50.4	U	50.4	mg/Kg		01/11/24 14:47	01/12/24 18:16	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/11/24 14:47	01/12/24 18:16	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/11/24 14:47	01/12/24 18:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130			01/11/24 14:47	01/12/24 18:16	1
o-Terphenyl	147	S1+	70 - 130			01/11/24 14:47	01/12/24 18:16	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 33

Lab Sample ID: 890-5930-19

Date Collected: 01/09/24 09:30

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05	mg/Kg			01/12/24 00:59	1

Client Sample ID: FS 34

Lab Sample ID: 890-5930-20

Date Collected: 01/09/24 09:35

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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		01/15/24 11:09	01/16/24 07:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 07:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 07:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/15/24 11:09	01/16/24 07:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 07:37	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/15/24 11:09	01/16/24 07:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			01/15/24 11:09	01/16/24 07:37	1
1,4-Difluorobenzene (Surr)	109		70 - 130			01/15/24 11:09	01/16/24 07:37	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			01/16/24 07:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			01/12/24 18:38	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	<50.5	U	50.5	mg/Kg		01/11/24 14:47	01/12/24 18:38	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/11/24 14:47	01/12/24 18:38	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/11/24 14:47	01/12/24 18:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130			01/11/24 14:47	01/12/24 18:38	1
o-Terphenyl	131	S1+	70 - 130			01/11/24 14:47	01/12/24 18:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		5.02	mg/Kg			01/12/24 01:06	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 35

Lab Sample ID: 890-5930-21

Date Collected: 01/09/24 09:40

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 13:43	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 13:43	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 13:43	1
m-Xylene & p-Xylene	<0.00396	U **	0.00396	mg/Kg		01/15/24 09:01	01/15/24 13:43	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 13:43	1
Xylenes, Total	<0.00396	U **	0.00396	mg/Kg		01/15/24 09:01	01/15/24 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	01/15/24 09:01	01/15/24 13:43	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/15/24 09:01	01/15/24 13:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/15/24 13:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			01/13/24 11:00	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	<49.6	U	49.6	mg/Kg		01/11/24 14:51	01/13/24 11:00	1
Diesel Range Organics (Over C10-C28)	<49.6	U F1	49.6	mg/Kg		01/11/24 14:51	01/13/24 11:00	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/11/24 14:51	01/13/24 11:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130	01/11/24 14:51	01/13/24 11:00	1
o-Terphenyl	143	S1+	70 - 130	01/11/24 14:51	01/13/24 11:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122	F1	5.01	mg/Kg			01/12/24 01:13	1

Client Sample ID: FS 36

Lab Sample ID: 890-5930-22

Date Collected: 01/09/24 09:45

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 14:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 14:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 14:04	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402	mg/Kg		01/15/24 09:01	01/15/24 14:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 14:04	1
Xylenes, Total	<0.00402	U **	0.00402	mg/Kg		01/15/24 09:01	01/15/24 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/15/24 09:01	01/15/24 14:04	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 36

Lab Sample ID: 890-5930-22

Date Collected: 01/09/24 09:45

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130	01/15/24 09:01	01/15/24 14:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/15/24 14:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			01/13/24 12:05	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	<50.5	U	50.5	mg/Kg		01/11/24 14:51	01/13/24 12:05	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/11/24 14:51	01/13/24 12:05	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/11/24 14:51	01/13/24 12:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130			01/11/24 14:51	01/13/24 12:05	1
o-Terphenyl	135	S1+	70 - 130			01/11/24 14:51	01/13/24 12:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		4.99	mg/Kg			01/12/24 01:34	1

Client Sample ID: FS 37

Lab Sample ID: 890-5930-23

Date Collected: 01/09/24 09:50

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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		01/15/24 09:01	01/15/24 14:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/15/24 09:01	01/15/24 14:24	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/15/24 09:01	01/15/24 14:24	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403	mg/Kg		01/15/24 09:01	01/15/24 14:24	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/15/24 09:01	01/15/24 14:24	1
Xylenes, Total	<0.00403	U **	0.00403	mg/Kg		01/15/24 09:01	01/15/24 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	01/15/24 09:01	01/15/24 14:24	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/15/24 09:01	01/15/24 14:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/15/24 14:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			01/13/24 12:26	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 37

Lab Sample ID: 890-5930-23

Date Collected: 01/09/24 09:50

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 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	<50.2	U	50.2	mg/Kg		01/11/24 14:51	01/13/24 12:26	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		01/11/24 14:51	01/13/24 12:26	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/11/24 14:51	01/13/24 12:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130			01/11/24 14:51	01/13/24 12:26	1
o-Terphenyl	125		70 - 130			01/11/24 14:51	01/13/24 12:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202		4.97	mg/Kg			01/12/24 01:41	1

Client Sample ID: FS 38

Lab Sample ID: 890-5930-24

Date Collected: 01/09/24 09:55

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/15/24 09:01	01/15/24 14:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/15/24 09:01	01/15/24 14:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/15/24 09:01	01/15/24 14:44	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398	mg/Kg		01/15/24 09:01	01/15/24 14:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/15/24 09:01	01/15/24 14:44	1
Xylenes, Total	<0.00398	U **	0.00398	mg/Kg		01/15/24 09:01	01/15/24 14:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			01/15/24 09:01	01/15/24 14:44	1
1,4-Difluorobenzene (Surr)	114		70 - 130			01/15/24 09:01	01/15/24 14:44	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			01/15/24 14:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/13/24 12:48	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		01/11/24 14:51	01/13/24 12:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/11/24 14:51	01/13/24 12:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/11/24 14:51	01/13/24 12:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130			01/11/24 14:51	01/13/24 12:48	1
o-Terphenyl	133	S1+	70 - 130			01/11/24 14:51	01/13/24 12:48	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 38

Lab Sample ID: 890-5930-24

Date Collected: 01/09/24 09:55

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		4.95	mg/Kg			01/12/24 02:01	1

Client Sample ID: FS 39

Lab Sample ID: 890-5930-25

Date Collected: 01/09/24 10:00

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 15:05	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 15:05	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 15:05	1
m-Xylene & p-Xylene	<0.00396	U **	0.00396	mg/Kg		01/15/24 09:01	01/15/24 15:05	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 15:05	1
Xylenes, Total	<0.00396	U **	0.00396	mg/Kg		01/15/24 09:01	01/15/24 15:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			01/15/24 09:01	01/15/24 15:05	1
1,4-Difluorobenzene (Surr)	113		70 - 130			01/15/24 09:01	01/15/24 15:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/15/24 15:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/13/24 13:10	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	<49.7	U	49.7	mg/Kg		01/11/24 14:51	01/13/24 13:10	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/11/24 14:51	01/13/24 13:10	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/11/24 14:51	01/13/24 13:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130			01/11/24 14:51	01/13/24 13:10	1
o-Terphenyl	126		70 - 130			01/11/24 14:51	01/13/24 13:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		4.97	mg/Kg			01/12/24 02:08	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 40

Lab Sample ID: 890-5930-26

Date Collected: 01/09/24 10:05

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 18:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 18:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 18:38	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402	mg/Kg		01/15/24 09:01	01/15/24 18:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 18:38	1
Xylenes, Total	<0.00402	U **	0.00402	mg/Kg		01/15/24 09:01	01/15/24 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	01/15/24 09:01	01/15/24 18:38	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/15/24 09:01	01/15/24 18:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/15/24 18:38	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			01/13/24 13:31	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	<50.0	U	50.0	mg/Kg		01/11/24 14:51	01/13/24 13:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/11/24 14:51	01/13/24 13:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/11/24 14:51	01/13/24 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	01/11/24 14:51	01/13/24 13:31	1
o-Terphenyl	128		70 - 130	01/11/24 14:51	01/13/24 13:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		5.00	mg/Kg			01/12/24 02:15	1

Client Sample ID: FS 41

Lab Sample ID: 890-5930-27

Date Collected: 01/09/24 10:10

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 18:58	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 18:58	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 18:58	1
m-Xylene & p-Xylene	<0.00397	U **	0.00397	mg/Kg		01/15/24 09:01	01/15/24 18:58	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 18:58	1
Xylenes, Total	<0.00397	U **	0.00397	mg/Kg		01/15/24 09:01	01/15/24 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	01/15/24 09:01	01/15/24 18:58	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 41

Lab Sample ID: 890-5930-27

Date Collected: 01/09/24 10:10

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	01/15/24 09:01	01/15/24 18:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			01/15/24 18:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			01/13/24 13:53	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	<50.3	U	50.3	mg/Kg		01/11/24 14:51	01/13/24 13:53	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		01/11/24 14:51	01/13/24 13:53	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		01/11/24 14:51	01/13/24 13:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	173	S1+	70 - 130			01/11/24 14:51	01/13/24 13:53	1
o-Terphenyl	156	S1+	70 - 130			01/11/24 14:51	01/13/24 13:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		5.00	mg/Kg			01/12/24 02:22	1

Client Sample ID: FS 42

Lab Sample ID: 890-5930-28

Date Collected: 01/09/24 10:15

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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		01/15/24 09:01	01/15/24 19:19	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/15/24 09:01	01/15/24 19:19	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/15/24 09:01	01/15/24 19:19	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403	mg/Kg		01/15/24 09:01	01/15/24 19:19	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/15/24 09:01	01/15/24 19:19	1
Xylenes, Total	<0.00403	U **	0.00403	mg/Kg		01/15/24 09:01	01/15/24 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/15/24 09:01	01/15/24 19:19	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/15/24 09:01	01/15/24 19:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/15/24 19:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			01/13/24 14:14	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 42

Lab Sample ID: 890-5930-28

Date Collected: 01/09/24 10:15

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 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	<50.1	U	50.1	mg/Kg		01/11/24 14:51	01/13/24 14:14	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		01/11/24 14:51	01/13/24 14:14	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/11/24 14:51	01/13/24 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130			01/11/24 14:51	01/13/24 14:14	1
o-Terphenyl	149	S1+	70 - 130			01/11/24 14:51	01/13/24 14:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.7		4.99	mg/Kg			01/12/24 02:29	1

Client Sample ID: FS 43

Lab Sample ID: 890-5930-29

Date Collected: 01/09/24 10:20

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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		01/15/24 09:01	01/15/24 19:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 09:01	01/15/24 19:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 09:01	01/15/24 19:39	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401	mg/Kg		01/15/24 09:01	01/15/24 19:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 09:01	01/15/24 19:39	1
Xylenes, Total	<0.00401	U **	0.00401	mg/Kg		01/15/24 09:01	01/15/24 19:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			01/15/24 09:01	01/15/24 19:39	1
1,4-Difluorobenzene (Surr)	111		70 - 130			01/15/24 09:01	01/15/24 19:39	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	mg/Kg			01/15/24 19:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			01/13/24 14:36	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	<50.4	U	50.4	mg/Kg		01/11/24 14:51	01/13/24 14:36	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/11/24 14:51	01/13/24 14:36	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/11/24 14:51	01/13/24 14:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130			01/11/24 14:51	01/13/24 14:36	1
o-Terphenyl	141	S1+	70 - 130			01/11/24 14:51	01/13/24 14:36	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 43

Lab Sample ID: 890-5930-29

Date Collected: 01/09/24 10:20

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		5.04	mg/Kg			01/12/24 02:36	1

Client Sample ID: FS 44

Lab Sample ID: 890-5930-30

Date Collected: 01/09/24 10:35

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 20:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 20:00	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 20:00	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402	mg/Kg		01/15/24 09:01	01/15/24 20:00	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 20:00	1
Xylenes, Total	<0.00402	U **	0.00402	mg/Kg		01/15/24 09:01	01/15/24 20:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			01/15/24 09:01	01/15/24 20:00	1
1,4-Difluorobenzene (Surr)	105		70 - 130			01/15/24 09:01	01/15/24 20:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/15/24 20:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			01/13/24 14:58	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	<50.4	U	50.4	mg/Kg		01/11/24 14:51	01/13/24 14:58	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/11/24 14:51	01/13/24 14:58	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/11/24 14:51	01/13/24 14:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130			01/11/24 14:51	01/13/24 14:58	1
o-Terphenyl	143	S1+	70 - 130			01/11/24 14:51	01/13/24 14:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.0		4.97	mg/Kg			01/12/24 02:43	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 45

Lab Sample ID: 890-5930-31

Date Collected: 01/09/24 10:40

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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		01/15/24 09:01	01/15/24 20:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 09:01	01/15/24 20:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 09:01	01/15/24 20:20	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399	mg/Kg		01/15/24 09:01	01/15/24 20:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 09:01	01/15/24 20:20	1
Xylenes, Total	<0.00399	U **	0.00399	mg/Kg		01/15/24 09:01	01/15/24 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/15/24 09:01	01/15/24 20:20	1
1,4-Difluorobenzene (Surr)	108		70 - 130	01/15/24 09:01	01/15/24 20:20	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			01/15/24 20:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/13/24 15:41	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	<49.7	U	49.7	mg/Kg		01/11/24 14:51	01/13/24 15:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/11/24 14:51	01/13/24 15:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/11/24 14:51	01/13/24 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130	01/11/24 14:51	01/13/24 15:41	1
o-Terphenyl	127		70 - 130	01/11/24 14:51	01/13/24 15:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152	F1	4.98	mg/Kg			01/12/24 03:38	1

Client Sample ID: FS 46

Lab Sample ID: 890-5930-32

Date Collected: 01/09/24 10:45

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/15/24 09:01	01/15/24 20:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/15/24 09:01	01/15/24 20:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/15/24 09:01	01/15/24 20:41	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398	mg/Kg		01/15/24 09:01	01/15/24 20:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/15/24 09:01	01/15/24 20:41	1
Xylenes, Total	<0.00398	U **	0.00398	mg/Kg		01/15/24 09:01	01/15/24 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/15/24 09:01	01/15/24 20:41	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 46

Lab Sample ID: 890-5930-32

Date Collected: 01/09/24 10:45

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	01/15/24 09:01	01/15/24 20:41	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			01/15/24 20:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/13/24 16:03	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		01/11/24 14:51	01/13/24 16:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/11/24 14:51	01/13/24 16:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/11/24 14:51	01/13/24 16:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130			01/11/24 14:51	01/13/24 16:03	1
o-Terphenyl	131	S1+	70 - 130			01/11/24 14:51	01/13/24 16:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		5.00	mg/Kg			01/12/24 03:58	1

Client Sample ID: FS 47

Lab Sample ID: 890-5930-33

Date Collected: 01/09/24 10:50

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 21:01	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 21:01	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 21:01	1
m-Xylene & p-Xylene	<0.00396	U **	0.00396	mg/Kg		01/15/24 09:01	01/15/24 21:01	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/15/24 09:01	01/15/24 21:01	1
Xylenes, Total	<0.00396	U **	0.00396	mg/Kg		01/15/24 09:01	01/15/24 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/15/24 09:01	01/15/24 21:01	1
1,4-Difluorobenzene (Surr)	108		70 - 130	01/15/24 09:01	01/15/24 21:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/15/24 21:01	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			01/13/24 16:24	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 47

Lab Sample ID: 890-5930-33

Date Collected: 01/09/24 10:50

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 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	<50.0	U	50.0	mg/Kg		01/11/24 14:51	01/13/24 16:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/11/24 14:51	01/13/24 16:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/11/24 14:51	01/13/24 16:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130			01/11/24 14:51	01/13/24 16:24	1
o-Terphenyl	124		70 - 130			01/11/24 14:51	01/13/24 16:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.5		4.95	mg/Kg			01/12/24 04:05	1

Client Sample ID: FS 48

Lab Sample ID: 890-5930-34

Date Collected: 01/09/24 10:55

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 21:22	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 21:22	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 21:22	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402	mg/Kg		01/15/24 09:01	01/15/24 21:22	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/15/24 09:01	01/15/24 21:22	1
Xylenes, Total	<0.00402	U **	0.00402	mg/Kg		01/15/24 09:01	01/15/24 21:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			01/15/24 09:01	01/15/24 21:22	1
1,4-Difluorobenzene (Surr)	111		70 - 130			01/15/24 09:01	01/15/24 21:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/15/24 21:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			01/13/24 16:45	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	<50.3	U	50.3	mg/Kg		01/11/24 14:51	01/13/24 16:45	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		01/11/24 14:51	01/13/24 16:45	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		01/11/24 14:51	01/13/24 16:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130			01/11/24 14:51	01/13/24 16:45	1
o-Terphenyl	133	S1+	70 - 130			01/11/24 14:51	01/13/24 16:45	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 48

Lab Sample ID: 890-5930-34

Date Collected: 01/09/24 10:55

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.1		4.99	mg/Kg			01/12/24 04:12	1

Client Sample ID: FS 49

Lab Sample ID: 890-5930-35

Date Collected: 01/09/24 11:00

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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		01/15/24 09:01	01/15/24 21:42	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/15/24 09:01	01/15/24 21:42	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/15/24 09:01	01/15/24 21:42	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404	mg/Kg		01/15/24 09:01	01/15/24 21:42	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/15/24 09:01	01/15/24 21:42	1
Xylenes, Total	<0.00404	U **	0.00404	mg/Kg		01/15/24 09:01	01/15/24 21:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			01/15/24 09:01	01/15/24 21:42	1
1,4-Difluorobenzene (Surr)	106		70 - 130			01/15/24 09:01	01/15/24 21:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/15/24 21:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			01/13/24 17:06	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	<50.1	U	50.1	mg/Kg		01/11/24 14:51	01/13/24 17:06	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		01/11/24 14:51	01/13/24 17:06	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/11/24 14:51	01/13/24 17:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	171	S1+	70 - 130			01/11/24 14:51	01/13/24 17:06	1
o-Terphenyl	153	S1+	70 - 130			01/11/24 14:51	01/13/24 17:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.04	mg/Kg			01/12/24 04:19	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 50

Lab Sample ID: 890-5930-36

Date Collected: 01/09/24 11:05

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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		01/15/24 11:09	01/16/24 07:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 07:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 07:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/15/24 11:09	01/16/24 07:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 07:58	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/15/24 11:09	01/16/24 07:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/15/24 11:09	01/16/24 07:58	1
1,4-Difluorobenzene (Surr)	114		70 - 130	01/15/24 11:09	01/16/24 07:58	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	mg/Kg			01/16/24 07:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			01/13/24 17:28	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	<50.5	U	50.5	mg/Kg		01/11/24 14:51	01/13/24 17:28	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/11/24 14:51	01/13/24 17:28	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/11/24 14:51	01/13/24 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130	01/11/24 14:51	01/13/24 17:28	1
o-Terphenyl	132	S1+	70 - 130	01/11/24 14:51	01/13/24 17:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		4.97	mg/Kg			01/12/24 04:40	1

Client Sample ID: FS 51

Lab Sample ID: 890-5930-37

Date Collected: 01/09/24 11:10

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 08:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 08:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 08:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/15/24 11:09	01/16/24 08:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 08:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/15/24 11:09	01/16/24 08:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	01/15/24 11:09	01/16/24 08:18	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 51

Lab Sample ID: 890-5930-37

Date Collected: 01/09/24 11:10

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	112		70 - 130	01/15/24 11:09	01/16/24 08:18	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			01/16/24 08:18	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			01/13/24 17:50	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	<50.0	U	50.0	mg/Kg		01/11/24 14:51	01/13/24 17:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/11/24 14:51	01/13/24 17:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/11/24 14:51	01/13/24 17:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130			01/11/24 14:51	01/13/24 17:50	1
o-Terphenyl	134	S1+	70 - 130			01/11/24 14:51	01/13/24 17:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		4.96	mg/Kg			01/12/24 04:46	1

Client Sample ID: FS 52

Lab Sample ID: 890-5930-38

Date Collected: 01/09/24 11:15

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 08:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 08:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 08:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/15/24 11:09	01/16/24 08:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/15/24 11:09	01/16/24 08:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/15/24 11:09	01/16/24 08:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			01/15/24 11:09	01/16/24 08:39	1
1,4-Difluorobenzene (Surr)	111		70 - 130			01/15/24 11:09	01/16/24 08:39	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			01/16/24 08:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/13/24 18:12	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 52

Lab Sample ID: 890-5930-38

Date Collected: 01/09/24 11:15

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 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		01/11/24 14:51	01/13/24 18:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/11/24 14:51	01/13/24 18:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/11/24 14:51	01/13/24 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130			01/11/24 14:51	01/13/24 18:12	1
o-Terphenyl	133	S1+	70 - 130			01/11/24 14:51	01/13/24 18:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.3		4.97	mg/Kg			01/12/24 04:53	1

Client Sample ID: FS 53

Lab Sample ID: 890-5930-39

Date Collected: 01/09/24 11:20

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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		01/15/24 11:09	01/16/24 08:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 08:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 08:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/15/24 11:09	01/16/24 08:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 08:59	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/15/24 11:09	01/16/24 08:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			01/15/24 11:09	01/16/24 08:59	1
1,4-Difluorobenzene (Surr)	106		70 - 130			01/15/24 11:09	01/16/24 08:59	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			01/16/24 08:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5	mg/Kg			01/13/24 18:35	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	<49.5	U	49.5	mg/Kg		01/11/24 14:51	01/13/24 18:35	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5	mg/Kg		01/11/24 14:51	01/13/24 18:35	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		01/11/24 14:51	01/13/24 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130			01/11/24 14:51	01/13/24 18:35	1
o-Terphenyl	126		70 - 130			01/11/24 14:51	01/13/24 18:35	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 53

Lab Sample ID: 890-5930-39

Date Collected: 01/09/24 11:20

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.7		5.05	mg/Kg			01/12/24 05:00	1

Client Sample ID: FS 54

Lab Sample ID: 890-5930-40

Date Collected: 01/09/24 11:25

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/15/24 11:09	01/16/24 09:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/15/24 11:09	01/16/24 09:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/15/24 11:09	01/16/24 09:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/15/24 11:09	01/16/24 09:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/15/24 11:09	01/16/24 09:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/15/24 11:09	01/16/24 09:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			01/15/24 11:09	01/16/24 09:20	1
1,4-Difluorobenzene (Surr)	108		70 - 130			01/15/24 11:09	01/16/24 09:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/16/24 09:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			01/13/24 18:57	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	<50.2	U	50.2	mg/Kg		01/11/24 14:51	01/13/24 18:57	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		01/11/24 14:51	01/13/24 18:57	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/11/24 14:51	01/13/24 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130			01/11/24 14:51	01/13/24 18:57	1
o-Terphenyl	123		70 - 130			01/11/24 14:51	01/13/24 18:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.6		5.02	mg/Kg			01/12/24 05:07	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 55

Lab Sample ID: 890-5930-41

Date Collected: 01/09/24 11:30

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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		01/15/24 12:53	01/16/24 04:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 12:53	01/16/24 04:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 12:53	01/16/24 04:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/15/24 12:53	01/16/24 04:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 12:53	01/16/24 04:25	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/15/24 12:53	01/16/24 04:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	01/15/24 12:53	01/16/24 04:25	1
1,4-Difluorobenzene (Surr)	81		70 - 130	01/15/24 12:53	01/16/24 04:25	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			01/16/24 04:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/13/24 20:42	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	<49.8	U	49.8	mg/Kg		01/11/24 14:55	01/13/24 20:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/11/24 14:55	01/13/24 20:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/11/24 14:55	01/13/24 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	01/11/24 14:55	01/13/24 20:42	1
o-Terphenyl	135	S1+	70 - 130	01/11/24 14:55	01/13/24 20:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.0	F1	5.01	mg/Kg			01/12/24 05:14	1

Client Sample ID: FS 56

Lab Sample ID: 890-5930-42

Date Collected: 01/09/24 11:35

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/15/24 12:53	01/16/24 04:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/15/24 12:53	01/16/24 04:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/15/24 12:53	01/16/24 04:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/15/24 12:53	01/16/24 04:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/15/24 12:53	01/16/24 04:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/15/24 12:53	01/16/24 04:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	01/15/24 12:53	01/16/24 04:46	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 56

Lab Sample ID: 890-5930-42

Date Collected: 01/09/24 11:35

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	73		70 - 130	01/15/24 12:53	01/16/24 04:46	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			01/16/24 04:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			01/13/24 21:45	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	<50.5	U	50.5	mg/Kg		01/11/24 14:55	01/13/24 21:45	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/11/24 14:55	01/13/24 21:45	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/11/24 14:55	01/13/24 21:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130			01/11/24 14:55	01/13/24 21:45	1
o-Terphenyl	134	S1+	70 - 130			01/11/24 14:55	01/13/24 21:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.9		4.99	mg/Kg			01/12/24 05:34	1

Client Sample ID: FS 57

Lab Sample ID: 890-5930-43

Date Collected: 01/09/24 11:40

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/15/24 12:53	01/16/24 05:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/15/24 12:53	01/16/24 05:06	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/15/24 12:53	01/16/24 05:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/15/24 12:53	01/16/24 05:06	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/15/24 12:53	01/16/24 05:06	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/15/24 12:53	01/16/24 05:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/15/24 12:53	01/16/24 05:06	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130	01/15/24 12:53	01/16/24 05:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/16/24 05:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			01/13/24 22:06	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 57

Lab Sample ID: 890-5930-43

Date Collected: 01/09/24 11:40

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 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	<50.2	U	50.2	mg/Kg		01/11/24 14:55	01/13/24 22:06	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		01/11/24 14:55	01/13/24 22:06	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/11/24 14:55	01/13/24 22:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130			01/11/24 14:55	01/13/24 22:06	1
o-Terphenyl	140	S1+	70 - 130			01/11/24 14:55	01/13/24 22:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.4		4.97	mg/Kg			01/12/24 05:41	1

Client Sample ID: SW 04

Lab Sample ID: 890-5930-44

Date Collected: 01/09/24 10:25

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 0 - 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/15/24 12:53	01/16/24 05:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/15/24 12:53	01/16/24 05:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/15/24 12:53	01/16/24 05:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/15/24 12:53	01/16/24 05:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/15/24 12:53	01/16/24 05:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/15/24 12:53	01/16/24 05:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			01/15/24 12:53	01/16/24 05:27	1
1,4-Difluorobenzene (Surr)	75		70 - 130			01/15/24 12:53	01/16/24 05:27	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			01/16/24 05:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			01/13/24 22:27	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	<50.2	U	50.2	mg/Kg		01/11/24 14:55	01/13/24 22:27	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		01/11/24 14:55	01/13/24 22:27	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/11/24 14:55	01/13/24 22:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	158	S1+	70 - 130			01/11/24 14:55	01/13/24 22:27	1
o-Terphenyl	142	S1+	70 - 130			01/11/24 14:55	01/13/24 22:27	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: SW 04

Lab Sample ID: 890-5930-44

Date Collected: 01/09/24 10:25

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 0 - 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.6		4.95	mg/Kg			01/12/24 06:02	1

Client Sample ID: SW 05

Lab Sample ID: 890-5930-45

Date Collected: 01/09/24 10:30

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 0 - 2'

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		01/15/24 12:53	01/16/24 05:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 12:53	01/16/24 05:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 12:53	01/16/24 05:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/15/24 12:53	01/16/24 05:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 12:53	01/16/24 05:47	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/15/24 12:53	01/16/24 05:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			01/15/24 12:53	01/16/24 05:47	1
1,4-Difluorobenzene (Surr)	61	S1-	70 - 130			01/15/24 12:53	01/16/24 05:47	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			01/16/24 05:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			01/13/24 22:48	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	<50.5	U	50.5	mg/Kg		01/11/24 14:55	01/13/24 22:48	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/11/24 14:55	01/13/24 22:48	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/11/24 14:55	01/13/24 22:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130			01/11/24 14:55	01/13/24 22:48	1
o-Terphenyl	127		70 - 130			01/11/24 14:55	01/13/24 22:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.7		4.97	mg/Kg			01/12/24 06:09	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: SW 06

Lab Sample ID: 890-5930-46

Date Collected: 01/09/24 11:45

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 0 - 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/15/24 12:53	01/16/24 06:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/15/24 12:53	01/16/24 06:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/15/24 12:53	01/16/24 06:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/15/24 12:53	01/16/24 06:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/15/24 12:53	01/16/24 06:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/15/24 12:53	01/16/24 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	01/15/24 12:53	01/16/24 06:07	1
1,4-Difluorobenzene (Surr)	80		70 - 130	01/15/24 12:53	01/16/24 06:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/16/24 06:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/13/24 23:09	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	<49.8	U	49.8	mg/Kg		01/11/24 14:55	01/13/24 23:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/11/24 14:55	01/13/24 23:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/11/24 14:55	01/13/24 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130	01/11/24 14:55	01/13/24 23:09	1
o-Terphenyl	138	S1+	70 - 130	01/11/24 14:55	01/13/24 23:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.8		5.00	mg/Kg			01/12/24 06:16	1

Client Sample ID: SW 07

Lab Sample ID: 890-5930-47

Date Collected: 01/09/24 11:50

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 0 - 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/15/24 12:53	01/16/24 06:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/15/24 12:53	01/16/24 06:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/15/24 12:53	01/16/24 06:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/15/24 12:53	01/16/24 06:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/15/24 12:53	01/16/24 06:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/15/24 12:53	01/16/24 06:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/15/24 12:53	01/16/24 06:28	1

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Client Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: SW 07

Lab Sample ID: 890-5930-47

Date Collected: 01/09/24 11:50

Matrix: Solid

Date Received: 01/09/24 14:54

Sample Depth: 0 - 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	79		70 - 130	01/15/24 12:53	01/16/24 06:28	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			01/16/24 06:28	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			01/13/24 23:30	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	<50.0	U	50.0	mg/Kg		01/11/24 14:55	01/13/24 23:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/11/24 14:55	01/13/24 23:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/11/24 14:55	01/13/24 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130			01/11/24 14:55	01/13/24 23:30	1
o-Terphenyl	139	S1+	70 - 130			01/11/24 14:55	01/13/24 23:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		5.00	mg/Kg			01/12/24 06:22	1

Surrogate Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-5930-1	FS 15	57 S1-	94
890-5930-1 MS	FS 15	93	110
890-5930-1 MSD	FS 15	110	109
890-5930-2	FS 16	90	73
890-5930-3	FS 17	83	67 S1-
890-5930-4	FS 18	80	84
890-5930-5	FS 19	89	81
890-5930-6	FS 20	78	85
890-5930-7	FS 21	94	69 S1-
890-5930-8	FS 22	81	69 S1-
890-5930-9	FS 23	81	86
890-5930-10	FS 24	81	82
890-5930-11	FS 25	94	76
890-5930-12	FS 26	86	85
890-5930-13	FS 27	84	88
890-5930-14	FS 28	88	64 S1-
890-5930-15	FS 29	110	110
890-5930-16	FS 30	93	105
890-5930-17	FS 31	104	110
890-5930-18	FS 32	106	104
890-5930-19	FS 33	113	112
890-5930-20	FS 34	105	109
890-5930-21	FS 35	91	102
890-5930-21 MS	FS 35	104	102
890-5930-21 MSD	FS 35	115	102
890-5930-22	FS 36	103	109
890-5930-23	FS 37	101	105
890-5930-24	FS 38	112	114
890-5930-25	FS 39	109	113
890-5930-26	FS 40	91	103
890-5930-27	FS 41	106	108
890-5930-28	FS 42	105	107
890-5930-29	FS 43	107	111
890-5930-30	FS 44	106	105
890-5930-31	FS 45	110	108
890-5930-32	FS 46	110	107
890-5930-33	FS 47	105	108
890-5930-34	FS 48	112	111
890-5930-35	FS 49	115	106
890-5930-36	FS 50	105	114
890-5930-37	FS 51	115	112
890-5930-38	FS 52	114	111
890-5930-39	FS 53	116	106
890-5930-40	FS 54	112	108
890-5930-41	FS 55	89	81
890-5930-42	FS 56	94	73
890-5930-43	FS 57	92	65 S1-
890-5930-44	SW 04	96	75
890-5930-45	SW 05	86	61 S1-

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Surrogate Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5930-46	SW 06	83	80
890-5930-47	SW 07	95	79
LCS 880-70840/1-A	Lab Control Sample	101	107
LCS 880-70841/1-A	Lab Control Sample	111	104
LCS 880-70845/1-A	Lab Control Sample	102	99
LCS 880-70858/1-A	Lab Control Sample	109	104
LCSD 880-70840/2-A	Lab Control Sample Dup	113	107
LCSD 880-70841/2-A	Lab Control Sample Dup	120	101
LCSD 880-70845/2-A	Lab Control Sample Dup	110	112
LCSD 880-70858/2-A	Lab Control Sample Dup	119	108
MB 880-70840/5-A	Method Blank	75	88
MB 880-70841/5-A	Method Blank	108	121
MB 880-70845/5-A	Method Blank	123	137 S1+
MB 880-70858/5-A	Method Blank	71	90
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 Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5930-1	FS 15	130	118
890-5930-2	FS 16	145 S1+	137 S1+
890-5930-3	FS 17	164 S1+	152 S1+
890-5930-4	FS 18	159 S1+	148 S1+
890-5930-5	FS 19	156 S1+	148 S1+
890-5930-6	FS 20	161 S1+	147 S1+
890-5930-7	FS 21	155 S1+	149 S1+
890-5930-8	FS 22	149 S1+	135 S1+
890-5930-8 MS	FS 22	165 S1+	132 S1+
890-5930-8 MSD	FS 22	153 S1+	118
890-5930-9	FS 23	163 S1+	153 S1+
890-5930-10	FS 24	142 S1+	131 S1+
890-5930-11	FS 25	154 S1+	143 S1+
890-5930-12	FS 26	151 S1+	141 S1+
890-5930-13	FS 27	152 S1+	136 S1+
890-5930-14	FS 28	159 S1+	148 S1+
890-5930-15	FS 29	167 S1+	150 S1+
890-5930-16	FS 30	161 S1+	143 S1+
890-5930-17	FS 31	157 S1+	145 S1+
890-5930-18	FS 32	140 S1+	134 S1+
890-5930-19	FS 33	152 S1+	147 S1+
890-5930-20	FS 34	133 S1+	131 S1+
890-5930-21	FS 35	162 S1+	143 S1+
890-5930-21 MS	FS 35	160 S1+	130
890-5930-21 MSD	FS 35	163 S1+	131 S1+
890-5930-22	FS 36	150 S1+	135 S1+

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Surrogate Summary

Client: Ensolum

Job ID: 890-5930-1

Project/Site: REMUDA 500 CTB

SDG: 03C1558151 / 03C1558187

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5930-23	FS 37	141 S1+	125
890-5930-24	FS 38	152 S1+	133 S1+
890-5930-25	FS 39	142 S1+	126
890-5930-26	FS 40	136 S1+	128
890-5930-27	FS 41	173 S1+	156 S1+
890-5930-28	FS 42	160 S1+	149 S1+
890-5930-29	FS 43	156 S1+	141 S1+
890-5930-30	FS 44	161 S1+	143 S1+
890-5930-31	FS 45	143 S1+	127
890-5930-32	FS 46	150 S1+	131 S1+
890-5930-33	FS 47	137 S1+	124
890-5930-34	FS 48	147 S1+	133 S1+
890-5930-35	FS 49	171 S1+	153 S1+
890-5930-36	FS 50	152 S1+	132 S1+
890-5930-37	FS 51	151 S1+	134 S1+
890-5930-38	FS 52	151 S1+	133 S1+
890-5930-39	FS 53	141 S1+	126
890-5930-40	FS 54	141 S1+	123
890-5930-41	FS 55	148 S1+	135 S1+
890-5930-41 MS	FS 55	132 S1+	107
890-5930-41 MSD	FS 55	131 S1+	104
890-5930-42	FS 56	151 S1+	134 S1+
890-5930-43	FS 57	157 S1+	140 S1+
890-5930-44	SW 04	158 S1+	142 S1+
890-5930-45	SW 05	141 S1+	127
890-5930-46	SW 06	151 S1+	138 S1+
890-5930-47	SW 07	156 S1+	139 S1+
LCS 880-70666/2-A	Lab Control Sample	90	90
LCS 880-70667/2-A	Lab Control Sample	88	85
LCS 880-70668/2-A	Lab Control Sample	94	91
LCSD 880-70666/3-A	Lab Control Sample Dup	98	105
LCSD 880-70667/3-A	Lab Control Sample Dup	94	101
LCSD 880-70668/3-A	Lab Control Sample Dup	103	109
MB 880-70666/1-A	Method Blank	185 S1+	177 S1+
MB 880-70667/1-A	Method Blank	196 S1+	193 S1+
MB 880-70668/1-A	Method Blank	194 S1+	182 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70840/5-A

Matrix: Solid

Analysis Batch: 70828

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70840

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 11:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 11:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/15/24 08:59	01/15/24 11:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 08:59	01/15/24 11:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/15/24 08:59	01/15/24 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	01/15/24 08:59	01/15/24 11:08	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/15/24 08:59	01/15/24 11:08	1

Lab Sample ID: LCS 880-70840/1-A

Matrix: Solid

Analysis Batch: 70828

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1036		mg/Kg		104	70 - 130
Toluene	0.100	0.09292		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09663		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2088		mg/Kg		104	70 - 130
o-Xylene	0.100	0.09918		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-70840/2-A

Matrix: Solid

Analysis Batch: 70828

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70840

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1084		mg/Kg		108	70 - 130	5	35
Toluene	0.100	0.08979		mg/Kg		90	70 - 130	3	35
Ethylbenzene	0.100	0.09405		mg/Kg		94	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1952		mg/Kg		98	70 - 130	7	35
o-Xylene	0.100	0.09437		mg/Kg		94	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-5930-1 MS

Matrix: Solid

Analysis Batch: 70828

Client Sample ID: FS 15

Prep Type: Total/NA

Prep Batch: 70840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1294		mg/Kg		130	70 - 130
Toluene	<0.00199	U	0.0996	0.1085		mg/Kg		109	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: 890-5930-1 MS

Client Sample ID: FS 15

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 70828

Prep Batch: 70840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1075		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2165		mg/Kg		109	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1015		mg/Kg		102	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	93		70 - 130						
1,4-Difluorobenzene (Surr)	110		70 - 130						

Lab Sample ID: 890-5930-1 MSD

Client Sample ID: FS 15

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 70828

Prep Batch: 70840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1233		mg/Kg		123	70 - 130	5	35
Toluene	<0.00199	U	0.100	0.1074		mg/Kg		107	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.100	0.1154		mg/Kg		115	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2466		mg/Kg		123	70 - 130	13	35
o-Xylene	<0.00199	U	0.100	0.1160		mg/Kg		116	70 - 130	13	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	110		70 - 130								
1,4-Difluorobenzene (Surr)	109		70 - 130								

Lab Sample ID: MB 880-70841/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 70829

Prep Batch: 70841

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/15/24 09:01	01/15/24 13:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 09:01	01/15/24 13:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 09:01	01/15/24 13:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/15/24 09:01	01/15/24 13:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 09:01	01/15/24 13:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/15/24 09:01	01/15/24 13:14	1
Surrogate	%Recovery	MB Qualifier	MB Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			01/15/24 09:01	01/15/24 13:14	1
1,4-Difluorobenzene (Surr)	121		70 - 130			01/15/24 09:01	01/15/24 13:14	1

Lab Sample ID: LCS 880-70841/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 70829

Prep Batch: 70841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1219		mg/Kg		122	70 - 130
Toluene	0.100	0.1007		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1055		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2093		mg/Kg		105	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: LCS 880-70841/1-A

Matrix: Solid

Analysis Batch: 70829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1213		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-70841/2-A

Matrix: Solid

Analysis Batch: 70829

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1190		mg/Kg		119	70 - 130	2	35
Toluene	0.100	0.1070		mg/Kg		107	70 - 130	6	35
Ethylbenzene	0.100	0.1184		mg/Kg		118	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2818	*+	mg/Kg		141	70 - 130	30	35
o-Xylene	0.100	0.1230		mg/Kg		123	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-5930-21 MS

Matrix: Solid

Analysis Batch: 70829

Client Sample ID: FS 35

Prep Type: Total/NA

Prep Batch: 70841

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.100	0.1117		mg/Kg		111	70 - 130
Toluene	<0.00198	U	0.100	0.09964		mg/Kg		99	70 - 130
Ethylbenzene	<0.00198	U	0.100	0.1037		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00396	U *+	0.201	0.2197		mg/Kg		109	70 - 130
o-Xylene	<0.00198	U	0.100	0.1062		mg/Kg		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-5930-21 MSD

Matrix: Solid

Analysis Batch: 70829

Client Sample ID: FS 35

Prep Type: Total/NA

Prep Batch: 70841

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.101	0.1132		mg/Kg		112	70 - 130	1	35
Toluene	<0.00198	U	0.101	0.09791		mg/Kg		97	70 - 130	2	35
Ethylbenzene	<0.00198	U	0.101	0.1060		mg/Kg		105	70 - 130	2	35
m-Xylene & p-Xylene	<0.00396	U *+	0.202	0.2277		mg/Kg		113	70 - 130	4	35
o-Xylene	<0.00198	U	0.101	0.1211		mg/Kg		119	70 - 130	13	35

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: 890-5930-21 MSD

Matrix: Solid

Analysis Batch: 70829

Client Sample ID: FS 35

Prep Type: Total/NA

Prep Batch: 70841

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-70845/5-A

Matrix: Solid

Analysis Batch: 70829

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70845

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 00:52	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 00:52	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 00:52	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/15/24 11:09	01/16/24 00:52	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 11:09	01/16/24 00:52	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/15/24 11:09	01/16/24 00:52	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	123		70 - 130	01/15/24 11:09	01/16/24 00:52	1			
1,4-Difluorobenzene (Surr)	137	S1+	70 - 130	01/15/24 11:09	01/16/24 00:52	1			

Lab Sample ID: LCS 880-70845/1-A

Matrix: Solid

Analysis Batch: 70829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70845

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.1106		mg/Kg		111	70 - 130		
Toluene	0.100	0.1018		mg/Kg		102	70 - 130		
Ethylbenzene	0.100	0.1026		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene	0.200	0.2217		mg/Kg		111	70 - 130		
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-70845/2-A

Matrix: Solid

Analysis Batch: 70829

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70845

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1171		mg/Kg		117	70 - 130	6	35	
Toluene	0.100	0.09277		mg/Kg		93	70 - 130	9	35	
Ethylbenzene	0.100	0.09725		mg/Kg		97	70 - 130	5	35	
m-Xylene & p-Xylene	0.200	0.2276		mg/Kg		114	70 - 130	3	35	
o-Xylene	0.100	0.1178		mg/Kg		118	70 - 130	4	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: LCSD 880-70845/2-A
Matrix: Solid
Analysis Batch: 70829

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70845

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

Lab Sample ID: MB 880-70858/5-A
Matrix: Solid
Analysis Batch: 70828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70858

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/15/24 12:53	01/15/24 22:55	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/15/24 12:53	01/15/24 22:55	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/15/24 12:53	01/15/24 22:55	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/15/24 12:53	01/15/24 22:55	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/15/24 12:53	01/15/24 22:55	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/15/24 12:53	01/15/24 22:55	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	71		70 - 130	01/15/24 12:53	01/15/24 22:55	1			
1,4-Difluorobenzene (Surr)	90		70 - 130	01/15/24 12:53	01/15/24 22:55	1			

Lab Sample ID: LCS 880-70858/1-A
Matrix: Solid
Analysis Batch: 70828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70858

Analyte	Spike	LCS	LCS					%Rec	
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.1096		mg/Kg		110	70 - 130		
Toluene	0.100	0.09809		mg/Kg		98	70 - 130		
Ethylbenzene	0.100	0.1043		mg/Kg		104	70 - 130		
m-Xylene & p-Xylene	0.200	0.2197		mg/Kg		110	70 - 130		
o-Xylene	0.100	0.1054		mg/Kg		105	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-70858/2-A
Matrix: Solid
Analysis Batch: 70828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70858

Analyte	Spike	LCSD	LCSD					%Rec	RPD	RPD
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1163		mg/Kg		116	70 - 130	6	35	
Toluene	0.100	0.09918		mg/Kg		99	70 - 130	1	35	
Ethylbenzene	0.100	0.1036		mg/Kg		104	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.2444		mg/Kg		122	70 - 130	11	35	
o-Xylene	0.100	0.1171		mg/Kg		117	70 - 130	11	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: MB 880-70666/1-A

Matrix: Solid

Analysis Batch: 70705

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70666

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/11/24 14:47	01/12/24 07:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/11/24 14:47	01/12/24 07:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/11/24 14:47	01/12/24 07:57	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane	185	S1+	70 - 130			01/11/24 14:47	01/12/24 07:57	1
o-Terphenyl	177	S1+	70 - 130			01/11/24 14:47	01/12/24 07:57	1

Lab Sample ID: LCS 880-70666/2-A

Matrix: Solid

Analysis Batch: 70705

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	901.9		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	952.4		mg/Kg		95	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	90		70 - 130				
o-Terphenyl	90		70 - 130				

Lab Sample ID: LCSD 880-70666/3-A

Matrix: Solid

Analysis Batch: 70705

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70666

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	888.4		mg/Kg		89	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	948.9		mg/Kg		95	70 - 130	0	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	98		70 - 130						
o-Terphenyl	105		70 - 130						

Lab Sample ID: 890-5930-8 MS

Matrix: Solid

Analysis Batch: 70705

Client Sample ID: FS 22

Prep Type: Total/NA

Prep Batch: 70666

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	1000	1355	F1	mg/Kg		131	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1000	1629	F1	mg/Kg		159	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: 890-5930-8 MS
Matrix: Solid
Analysis Batch: 70705

Client Sample ID: FS 22
Prep Type: Total/NA
Prep Batch: 70666

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	165	S1+	70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: 890-5930-8 MSD
Matrix: Solid
Analysis Batch: 70705

Client Sample ID: FS 22
Prep Type: Total/NA
Prep Batch: 70666

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	1000	1465	F1	mg/Kg		142	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1000	1499	F1	mg/Kg		146	70 - 130	8	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	153	S1+	70 - 130								
o-Terphenyl	118		70 - 130								

Lab Sample ID: MB 880-70667/1-A
Matrix: Solid
Analysis Batch: 70803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70667

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/11/24 14:51	01/13/24 08:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/11/24 14:51	01/13/24 08:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/11/24 14:51	01/13/24 08:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	196	S1+	70 - 130			01/11/24 14:51	01/13/24 08:27	1
o-Terphenyl	193	S1+	70 - 130			01/11/24 14:51	01/13/24 08:27	1

Lab Sample ID: LCS 880-70667/2-A
Matrix: Solid
Analysis Batch: 70803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	836.9		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	918.4		mg/Kg		92	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	88		70 - 130				
o-Terphenyl	85		70 - 130				

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: LCSD 880-70667/3-A

Matrix: Solid

Analysis Batch: 70803

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70667

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	973.8		mg/Kg		97	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	814.6		mg/Kg		81	70 - 130	12	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits							
1-Chlorooctane		94		70 - 130							
o-Terphenyl		101		70 - 130							

Lab Sample ID: 890-5930-21 MS

Matrix: Solid

Analysis Batch: 70803

Client Sample ID: FS 35

Prep Type: Total/NA

Prep Batch: 70667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1021		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1010	1648	F1	mg/Kg		161	70 - 130		
Surrogate		MS %Recovery	MS Qualifier	Limits							
1-Chlorooctane		160	S1+	70 - 130							
o-Terphenyl		130		70 - 130							

Lab Sample ID: 890-5930-21 MSD

Matrix: Solid

Analysis Batch: 70803

Client Sample ID: FS 35

Prep Type: Total/NA

Prep Batch: 70667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1003		mg/Kg		96	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1010	1689	F1	mg/Kg		165	70 - 130	2	20
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
1-Chlorooctane		163	S1+	70 - 130							
o-Terphenyl		131	S1+	70 - 130							

Lab Sample ID: MB 880-70668/1-A

Matrix: Solid

Analysis Batch: 70803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70668

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/11/24 14:55	01/13/24 19:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/11/24 14:55	01/13/24 19:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/11/24 14:55	01/13/24 19:40	1

QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: MB 880-70668/1-A

Matrix: Solid

Analysis Batch: 70803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70668

Surrogate	MB MB		Limits	Prepared		Dil Fac
	%Recovery	Qualifier			Analyzed	
1-Chlorooctane	194	S1+	70 - 130	01/11/24 14:55	01/13/24 19:40	1
o-Terphenyl	182	S1+	70 - 130	01/11/24 14:55	01/13/24 19:40	1

Lab Sample ID: LCS 880-70668/2-A

Matrix: Solid

Analysis Batch: 70803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	972.0		mg/Kg		97	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	974.2		mg/Kg		97	70 - 130	
Surrogate	LCS LCS		Limits					
	%Recovery	Qualifier						
1-Chlorooctane	94		70 - 130					
o-Terphenyl	91		70 - 130					

Lab Sample ID: LCSD 880-70668/3-A

Matrix: Solid

Analysis Batch: 70803

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70668

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	999.4		mg/Kg		100	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	1000	966.6		mg/Kg		97	70 - 130	1	20	
Surrogate	LCSD LCSD		Limits							
	%Recovery	Qualifier								
1-Chlorooctane	103		70 - 130							
o-Terphenyl	109		70 - 130							

Lab Sample ID: 890-5930-41 MS

Matrix: Solid

Analysis Batch: 70803

Client Sample ID: FS 55

Prep Type: Total/NA

Prep Batch: 70668

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	1257		mg/Kg		122	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	1311		mg/Kg		127	70 - 130	
Surrogate	MS MS		Limits							
	%Recovery	Qualifier								
1-Chlorooctane	132	S1+	70 - 130							
o-Terphenyl	107		70 - 130							

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

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

Lab Sample ID: 890-5930-41 MSD

Matrix: Solid

Analysis Batch: 70803

Client Sample ID: FS 55

Prep Type: Total/NA

Prep Batch: 70668

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	1252		mg/Kg		122	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	1303		mg/Kg		126	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	131	S1+	70 - 130								
o-Terphenyl	104		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70628/1-A

Matrix: Solid

Analysis Batch: 70693

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/11/24 19:32	1

Lab Sample ID: LCS 880-70628/2-A

Matrix: Solid

Analysis Batch: 70693

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.3		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-70628/3-A

Matrix: Solid

Analysis Batch: 70693

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	248.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-5930-1 MS

Matrix: Solid

Analysis Batch: 70693

Client Sample ID: FS 15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	42.9	F1	249	263.5	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-5930-1 MSD

Matrix: Solid

Analysis Batch: 70693

Client Sample ID: FS 15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	42.9	F1	249	264.3	F1	mg/Kg		89	90 - 110	0	20

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-70629/1-A
Matrix: Solid
Analysis Batch: 70694

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/11/24 23:17	1

Lab Sample ID: LCS 880-70629/2-A
Matrix: Solid
Analysis Batch: 70694

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-70629/3-A
Matrix: Solid
Analysis Batch: 70694

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	248.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-5930-11 MS
Matrix: Solid
Analysis Batch: 70694

Client Sample ID: FS 25
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	76.3		249	302.1		mg/Kg		91	90 - 110

Lab Sample ID: 890-5930-11 MSD
Matrix: Solid
Analysis Batch: 70694

Client Sample ID: FS 25
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	76.3		249	301.8		mg/Kg		91	90 - 110	0	20

Lab Sample ID: 890-5930-21 MS
Matrix: Solid
Analysis Batch: 70694

Client Sample ID: FS 35
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	122	F1	251	342.5	F1	mg/Kg		88	90 - 110

Lab Sample ID: 890-5930-21 MSD
Matrix: Solid
Analysis Batch: 70694

Client Sample ID: FS 35
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	122	F1	251	342.7	F1	mg/Kg		88	90 - 110	0	20

Lab Sample ID: MB 880-70630/1-A
Matrix: Solid
Analysis Batch: 70695

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/12/24 03:17	1

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QC Sample Results

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-70630/2-A						Client Sample ID: Lab Control Sample					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 70695											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.7		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-70630/3-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 70695											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.6		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 890-5930-31 MS						Client Sample ID: FS 45					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 70695											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	152	F1	249	369.1	F1	mg/Kg		87	90 - 110		

Lab Sample ID: 890-5930-31 MSD						Client Sample ID: FS 45					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 70695											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	152	F1	249	369.5	F1	mg/Kg		87	90 - 110	0	20

Lab Sample ID: 890-5930-41 MS						Client Sample ID: FS 55					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 70695											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	54.0	F1	251	270.6	F1	mg/Kg		86	90 - 110		

Lab Sample ID: 890-5930-41 MSD						Client Sample ID: FS 55					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 70695											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	54.0	F1	251	272.1	F1	mg/Kg		87	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

GC VOA

Analysis Batch: 70828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-1	FS 15	Total/NA	Solid	8021B	70840
890-5930-2	FS 16	Total/NA	Solid	8021B	70840
890-5930-3	FS 17	Total/NA	Solid	8021B	70840
890-5930-4	FS 18	Total/NA	Solid	8021B	70840
890-5930-5	FS 19	Total/NA	Solid	8021B	70840
890-5930-6	FS 20	Total/NA	Solid	8021B	70840
890-5930-7	FS 21	Total/NA	Solid	8021B	70840
890-5930-8	FS 22	Total/NA	Solid	8021B	70840
890-5930-9	FS 23	Total/NA	Solid	8021B	70840
890-5930-10	FS 24	Total/NA	Solid	8021B	70840
890-5930-11	FS 25	Total/NA	Solid	8021B	70840
890-5930-12	FS 26	Total/NA	Solid	8021B	70840
890-5930-13	FS 27	Total/NA	Solid	8021B	70840
890-5930-14	FS 28	Total/NA	Solid	8021B	70840
890-5930-41	FS 55	Total/NA	Solid	8021B	70858
890-5930-42	FS 56	Total/NA	Solid	8021B	70858
890-5930-43	FS 57	Total/NA	Solid	8021B	70858
890-5930-44	SW 04	Total/NA	Solid	8021B	70858
890-5930-45	SW 05	Total/NA	Solid	8021B	70858
890-5930-46	SW 06	Total/NA	Solid	8021B	70858
890-5930-47	SW 07	Total/NA	Solid	8021B	70858
MB 880-70840/5-A	Method Blank	Total/NA	Solid	8021B	70840
MB 880-70858/5-A	Method Blank	Total/NA	Solid	8021B	70858
LCS 880-70840/1-A	Lab Control Sample	Total/NA	Solid	8021B	70840
LCS 880-70858/1-A	Lab Control Sample	Total/NA	Solid	8021B	70858
LCSD 880-70840/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70840
LCSD 880-70858/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70858
890-5930-1 MS	FS 15	Total/NA	Solid	8021B	70840
890-5930-1 MSD	FS 15	Total/NA	Solid	8021B	70840

Analysis Batch: 70829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-15	FS 29	Total/NA	Solid	8021B	70845
890-5930-16	FS 30	Total/NA	Solid	8021B	70845
890-5930-17	FS 31	Total/NA	Solid	8021B	70845
890-5930-18	FS 32	Total/NA	Solid	8021B	70845
890-5930-19	FS 33	Total/NA	Solid	8021B	70845
890-5930-20	FS 34	Total/NA	Solid	8021B	70845
890-5930-21	FS 35	Total/NA	Solid	8021B	70841
890-5930-22	FS 36	Total/NA	Solid	8021B	70841
890-5930-23	FS 37	Total/NA	Solid	8021B	70841
890-5930-24	FS 38	Total/NA	Solid	8021B	70841
890-5930-25	FS 39	Total/NA	Solid	8021B	70841
890-5930-26	FS 40	Total/NA	Solid	8021B	70841
890-5930-27	FS 41	Total/NA	Solid	8021B	70841
890-5930-28	FS 42	Total/NA	Solid	8021B	70841
890-5930-29	FS 43	Total/NA	Solid	8021B	70841
890-5930-30	FS 44	Total/NA	Solid	8021B	70841
890-5930-31	FS 45	Total/NA	Solid	8021B	70841
890-5930-32	FS 46	Total/NA	Solid	8021B	70841
890-5930-33	FS 47	Total/NA	Solid	8021B	70841

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

GC VOA (Continued)

Analysis Batch: 70829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-34	FS 48	Total/NA	Solid	8021B	70841
890-5930-35	FS 49	Total/NA	Solid	8021B	70841
890-5930-36	FS 50	Total/NA	Solid	8021B	70845
890-5930-37	FS 51	Total/NA	Solid	8021B	70845
890-5930-38	FS 52	Total/NA	Solid	8021B	70845
890-5930-39	FS 53	Total/NA	Solid	8021B	70845
890-5930-40	FS 54	Total/NA	Solid	8021B	70845
MB 880-70841/5-A	Method Blank	Total/NA	Solid	8021B	70841
MB 880-70845/5-A	Method Blank	Total/NA	Solid	8021B	70845
LCS 880-70841/1-A	Lab Control Sample	Total/NA	Solid	8021B	70841
LCS 880-70845/1-A	Lab Control Sample	Total/NA	Solid	8021B	70845
LCSD 880-70841/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70841
LCSD 880-70845/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70845
890-5930-21 MS	FS 35	Total/NA	Solid	8021B	70841
890-5930-21 MSD	FS 35	Total/NA	Solid	8021B	70841

Prep Batch: 70840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-1	FS 15	Total/NA	Solid	5035	
890-5930-2	FS 16	Total/NA	Solid	5035	
890-5930-3	FS 17	Total/NA	Solid	5035	
890-5930-4	FS 18	Total/NA	Solid	5035	
890-5930-5	FS 19	Total/NA	Solid	5035	
890-5930-6	FS 20	Total/NA	Solid	5035	
890-5930-7	FS 21	Total/NA	Solid	5035	
890-5930-8	FS 22	Total/NA	Solid	5035	
890-5930-9	FS 23	Total/NA	Solid	5035	
890-5930-10	FS 24	Total/NA	Solid	5035	
890-5930-11	FS 25	Total/NA	Solid	5035	
890-5930-12	FS 26	Total/NA	Solid	5035	
890-5930-13	FS 27	Total/NA	Solid	5035	
890-5930-14	FS 28	Total/NA	Solid	5035	
MB 880-70840/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70840/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70840/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5930-1 MS	FS 15	Total/NA	Solid	5035	
890-5930-1 MSD	FS 15	Total/NA	Solid	5035	

Prep Batch: 70841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-21	FS 35	Total/NA	Solid	5035	
890-5930-22	FS 36	Total/NA	Solid	5035	
890-5930-23	FS 37	Total/NA	Solid	5035	
890-5930-24	FS 38	Total/NA	Solid	5035	
890-5930-25	FS 39	Total/NA	Solid	5035	
890-5930-26	FS 40	Total/NA	Solid	5035	
890-5930-27	FS 41	Total/NA	Solid	5035	
890-5930-28	FS 42	Total/NA	Solid	5035	
890-5930-29	FS 43	Total/NA	Solid	5035	
890-5930-30	FS 44	Total/NA	Solid	5035	
890-5930-31	FS 45	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

GC VOA (Continued)

Prep Batch: 70841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-32	FS 46	Total/NA	Solid	5035	
890-5930-33	FS 47	Total/NA	Solid	5035	
890-5930-34	FS 48	Total/NA	Solid	5035	
890-5930-35	FS 49	Total/NA	Solid	5035	
MB 880-70841/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70841/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70841/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5930-21 MS	FS 35	Total/NA	Solid	5035	
890-5930-21 MSD	FS 35	Total/NA	Solid	5035	

Prep Batch: 70845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-15	FS 29	Total/NA	Solid	5035	
890-5930-16	FS 30	Total/NA	Solid	5035	
890-5930-17	FS 31	Total/NA	Solid	5035	
890-5930-18	FS 32	Total/NA	Solid	5035	
890-5930-19	FS 33	Total/NA	Solid	5035	
890-5930-20	FS 34	Total/NA	Solid	5035	
890-5930-36	FS 50	Total/NA	Solid	5035	
890-5930-37	FS 51	Total/NA	Solid	5035	
890-5930-38	FS 52	Total/NA	Solid	5035	
890-5930-39	FS 53	Total/NA	Solid	5035	
890-5930-40	FS 54	Total/NA	Solid	5035	
MB 880-70845/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70845/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70845/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 70858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-41	FS 55	Total/NA	Solid	5035	
890-5930-42	FS 56	Total/NA	Solid	5035	
890-5930-43	FS 57	Total/NA	Solid	5035	
890-5930-44	SW 04	Total/NA	Solid	5035	
890-5930-45	SW 05	Total/NA	Solid	5035	
890-5930-46	SW 06	Total/NA	Solid	5035	
890-5930-47	SW 07	Total/NA	Solid	5035	
MB 880-70858/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70858/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70858/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 70979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-1	FS 15	Total/NA	Solid	Total BTEX	
890-5930-2	FS 16	Total/NA	Solid	Total BTEX	
890-5930-3	FS 17	Total/NA	Solid	Total BTEX	
890-5930-4	FS 18	Total/NA	Solid	Total BTEX	
890-5930-5	FS 19	Total/NA	Solid	Total BTEX	
890-5930-6	FS 20	Total/NA	Solid	Total BTEX	
890-5930-7	FS 21	Total/NA	Solid	Total BTEX	
890-5930-8	FS 22	Total/NA	Solid	Total BTEX	
890-5930-9	FS 23	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

GC VOA (Continued)

Analysis Batch: 70979 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-10	FS 24	Total/NA	Solid	Total BTEX	
890-5930-11	FS 25	Total/NA	Solid	Total BTEX	
890-5930-12	FS 26	Total/NA	Solid	Total BTEX	
890-5930-13	FS 27	Total/NA	Solid	Total BTEX	
890-5930-14	FS 28	Total/NA	Solid	Total BTEX	
890-5930-15	FS 29	Total/NA	Solid	Total BTEX	
890-5930-16	FS 30	Total/NA	Solid	Total BTEX	
890-5930-17	FS 31	Total/NA	Solid	Total BTEX	
890-5930-18	FS 32	Total/NA	Solid	Total BTEX	
890-5930-19	FS 33	Total/NA	Solid	Total BTEX	
890-5930-20	FS 34	Total/NA	Solid	Total BTEX	
890-5930-21	FS 35	Total/NA	Solid	Total BTEX	
890-5930-22	FS 36	Total/NA	Solid	Total BTEX	
890-5930-23	FS 37	Total/NA	Solid	Total BTEX	
890-5930-24	FS 38	Total/NA	Solid	Total BTEX	
890-5930-25	FS 39	Total/NA	Solid	Total BTEX	
890-5930-26	FS 40	Total/NA	Solid	Total BTEX	
890-5930-27	FS 41	Total/NA	Solid	Total BTEX	
890-5930-28	FS 42	Total/NA	Solid	Total BTEX	
890-5930-29	FS 43	Total/NA	Solid	Total BTEX	
890-5930-30	FS 44	Total/NA	Solid	Total BTEX	
890-5930-31	FS 45	Total/NA	Solid	Total BTEX	
890-5930-32	FS 46	Total/NA	Solid	Total BTEX	
890-5930-33	FS 47	Total/NA	Solid	Total BTEX	
890-5930-34	FS 48	Total/NA	Solid	Total BTEX	
890-5930-35	FS 49	Total/NA	Solid	Total BTEX	
890-5930-36	FS 50	Total/NA	Solid	Total BTEX	
890-5930-37	FS 51	Total/NA	Solid	Total BTEX	
890-5930-38	FS 52	Total/NA	Solid	Total BTEX	
890-5930-39	FS 53	Total/NA	Solid	Total BTEX	
890-5930-40	FS 54	Total/NA	Solid	Total BTEX	
890-5930-41	FS 55	Total/NA	Solid	Total BTEX	
890-5930-42	FS 56	Total/NA	Solid	Total BTEX	
890-5930-43	FS 57	Total/NA	Solid	Total BTEX	
890-5930-44	SW 04	Total/NA	Solid	Total BTEX	
890-5930-45	SW 05	Total/NA	Solid	Total BTEX	
890-5930-46	SW 06	Total/NA	Solid	Total BTEX	
890-5930-47	SW 07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 70666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-1	FS 15	Total/NA	Solid	8015NM Prep	
890-5930-2	FS 16	Total/NA	Solid	8015NM Prep	
890-5930-3	FS 17	Total/NA	Solid	8015NM Prep	
890-5930-4	FS 18	Total/NA	Solid	8015NM Prep	
890-5930-5	FS 19	Total/NA	Solid	8015NM Prep	
890-5930-6	FS 20	Total/NA	Solid	8015NM Prep	
890-5930-7	FS 21	Total/NA	Solid	8015NM Prep	
890-5930-8	FS 22	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

GC Semi VOA (Continued)

Prep Batch: 70666 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-9	FS 23	Total/NA	Solid	8015NM Prep	
890-5930-10	FS 24	Total/NA	Solid	8015NM Prep	
890-5930-11	FS 25	Total/NA	Solid	8015NM Prep	
890-5930-12	FS 26	Total/NA	Solid	8015NM Prep	
890-5930-13	FS 27	Total/NA	Solid	8015NM Prep	
890-5930-14	FS 28	Total/NA	Solid	8015NM Prep	
890-5930-15	FS 29	Total/NA	Solid	8015NM Prep	
890-5930-16	FS 30	Total/NA	Solid	8015NM Prep	
890-5930-17	FS 31	Total/NA	Solid	8015NM Prep	
890-5930-18	FS 32	Total/NA	Solid	8015NM Prep	
890-5930-19	FS 33	Total/NA	Solid	8015NM Prep	
890-5930-20	FS 34	Total/NA	Solid	8015NM Prep	
MB 880-70666/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70666/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70666/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5930-8 MS	FS 22	Total/NA	Solid	8015NM Prep	
890-5930-8 MSD	FS 22	Total/NA	Solid	8015NM Prep	

Prep Batch: 70667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-21	FS 35	Total/NA	Solid	8015NM Prep	
890-5930-22	FS 36	Total/NA	Solid	8015NM Prep	
890-5930-23	FS 37	Total/NA	Solid	8015NM Prep	
890-5930-24	FS 38	Total/NA	Solid	8015NM Prep	
890-5930-25	FS 39	Total/NA	Solid	8015NM Prep	
890-5930-26	FS 40	Total/NA	Solid	8015NM Prep	
890-5930-27	FS 41	Total/NA	Solid	8015NM Prep	
890-5930-28	FS 42	Total/NA	Solid	8015NM Prep	
890-5930-29	FS 43	Total/NA	Solid	8015NM Prep	
890-5930-30	FS 44	Total/NA	Solid	8015NM Prep	
890-5930-31	FS 45	Total/NA	Solid	8015NM Prep	
890-5930-32	FS 46	Total/NA	Solid	8015NM Prep	
890-5930-33	FS 47	Total/NA	Solid	8015NM Prep	
890-5930-34	FS 48	Total/NA	Solid	8015NM Prep	
890-5930-35	FS 49	Total/NA	Solid	8015NM Prep	
890-5930-36	FS 50	Total/NA	Solid	8015NM Prep	
890-5930-37	FS 51	Total/NA	Solid	8015NM Prep	
890-5930-38	FS 52	Total/NA	Solid	8015NM Prep	
890-5930-39	FS 53	Total/NA	Solid	8015NM Prep	
890-5930-40	FS 54	Total/NA	Solid	8015NM Prep	
MB 880-70667/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70667/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5930-21 MS	FS 35	Total/NA	Solid	8015NM Prep	
890-5930-21 MSD	FS 35	Total/NA	Solid	8015NM Prep	

Prep Batch: 70668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-41	FS 55	Total/NA	Solid	8015NM Prep	
890-5930-42	FS 56	Total/NA	Solid	8015NM Prep	
890-5930-43	FS 57	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

GC Semi VOA (Continued)

Prep Batch: 70668 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-44	SW 04	Total/NA	Solid	8015NM Prep	
890-5930-45	SW 05	Total/NA	Solid	8015NM Prep	
890-5930-46	SW 06	Total/NA	Solid	8015NM Prep	
890-5930-47	SW 07	Total/NA	Solid	8015NM Prep	
MB 880-70668/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70668/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70668/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5930-41 MS	FS 55	Total/NA	Solid	8015NM Prep	
890-5930-41 MSD	FS 55	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-1	FS 15	Total/NA	Solid	8015B NM	70666
890-5930-2	FS 16	Total/NA	Solid	8015B NM	70666
890-5930-3	FS 17	Total/NA	Solid	8015B NM	70666
890-5930-4	FS 18	Total/NA	Solid	8015B NM	70666
890-5930-5	FS 19	Total/NA	Solid	8015B NM	70666
890-5930-6	FS 20	Total/NA	Solid	8015B NM	70666
890-5930-7	FS 21	Total/NA	Solid	8015B NM	70666
890-5930-8	FS 22	Total/NA	Solid	8015B NM	70666
890-5930-9	FS 23	Total/NA	Solid	8015B NM	70666
890-5930-10	FS 24	Total/NA	Solid	8015B NM	70666
890-5930-11	FS 25	Total/NA	Solid	8015B NM	70666
890-5930-12	FS 26	Total/NA	Solid	8015B NM	70666
890-5930-13	FS 27	Total/NA	Solid	8015B NM	70666
890-5930-14	FS 28	Total/NA	Solid	8015B NM	70666
890-5930-15	FS 29	Total/NA	Solid	8015B NM	70666
890-5930-16	FS 30	Total/NA	Solid	8015B NM	70666
890-5930-17	FS 31	Total/NA	Solid	8015B NM	70666
890-5930-18	FS 32	Total/NA	Solid	8015B NM	70666
890-5930-19	FS 33	Total/NA	Solid	8015B NM	70666
890-5930-20	FS 34	Total/NA	Solid	8015B NM	70666
MB 880-70666/1-A	Method Blank	Total/NA	Solid	8015B NM	70666
LCS 880-70666/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70666
LCSD 880-70666/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70666
890-5930-8 MS	FS 22	Total/NA	Solid	8015B NM	70666
890-5930-8 MSD	FS 22	Total/NA	Solid	8015B NM	70666

Analysis Batch: 70803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-21	FS 35	Total/NA	Solid	8015B NM	70667
890-5930-22	FS 36	Total/NA	Solid	8015B NM	70667
890-5930-23	FS 37	Total/NA	Solid	8015B NM	70667
890-5930-24	FS 38	Total/NA	Solid	8015B NM	70667
890-5930-25	FS 39	Total/NA	Solid	8015B NM	70667
890-5930-26	FS 40	Total/NA	Solid	8015B NM	70667
890-5930-27	FS 41	Total/NA	Solid	8015B NM	70667
890-5930-28	FS 42	Total/NA	Solid	8015B NM	70667
890-5930-29	FS 43	Total/NA	Solid	8015B NM	70667
890-5930-30	FS 44	Total/NA	Solid	8015B NM	70667
890-5930-31	FS 45	Total/NA	Solid	8015B NM	70667

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

GC Semi VOA (Continued)

Analysis Batch: 70803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-32	FS 46	Total/NA	Solid	8015B NM	70667
890-5930-33	FS 47	Total/NA	Solid	8015B NM	70667
890-5930-34	FS 48	Total/NA	Solid	8015B NM	70667
890-5930-35	FS 49	Total/NA	Solid	8015B NM	70667
890-5930-36	FS 50	Total/NA	Solid	8015B NM	70667
890-5930-37	FS 51	Total/NA	Solid	8015B NM	70667
890-5930-38	FS 52	Total/NA	Solid	8015B NM	70667
890-5930-39	FS 53	Total/NA	Solid	8015B NM	70667
890-5930-40	FS 54	Total/NA	Solid	8015B NM	70667
890-5930-41	FS 55	Total/NA	Solid	8015B NM	70668
890-5930-42	FS 56	Total/NA	Solid	8015B NM	70668
890-5930-43	FS 57	Total/NA	Solid	8015B NM	70668
890-5930-44	SW 04	Total/NA	Solid	8015B NM	70668
890-5930-45	SW 05	Total/NA	Solid	8015B NM	70668
890-5930-46	SW 06	Total/NA	Solid	8015B NM	70668
890-5930-47	SW 07	Total/NA	Solid	8015B NM	70668
MB 880-70667/1-A	Method Blank	Total/NA	Solid	8015B NM	70667
MB 880-70668/1-A	Method Blank	Total/NA	Solid	8015B NM	70668
LCS 880-70667/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70667
LCS 880-70668/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70668
LCSD 880-70667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70667
LCSD 880-70668/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70668
890-5930-21 MS	FS 35	Total/NA	Solid	8015B NM	70667
890-5930-21 MSD	FS 35	Total/NA	Solid	8015B NM	70667
890-5930-41 MS	FS 55	Total/NA	Solid	8015B NM	70668
890-5930-41 MSD	FS 55	Total/NA	Solid	8015B NM	70668

Analysis Batch: 70908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-1	FS 15	Total/NA	Solid	8015 NM	
890-5930-2	FS 16	Total/NA	Solid	8015 NM	
890-5930-3	FS 17	Total/NA	Solid	8015 NM	
890-5930-4	FS 18	Total/NA	Solid	8015 NM	
890-5930-5	FS 19	Total/NA	Solid	8015 NM	
890-5930-6	FS 20	Total/NA	Solid	8015 NM	
890-5930-7	FS 21	Total/NA	Solid	8015 NM	
890-5930-8	FS 22	Total/NA	Solid	8015 NM	
890-5930-9	FS 23	Total/NA	Solid	8015 NM	
890-5930-10	FS 24	Total/NA	Solid	8015 NM	
890-5930-11	FS 25	Total/NA	Solid	8015 NM	
890-5930-12	FS 26	Total/NA	Solid	8015 NM	
890-5930-13	FS 27	Total/NA	Solid	8015 NM	
890-5930-14	FS 28	Total/NA	Solid	8015 NM	
890-5930-15	FS 29	Total/NA	Solid	8015 NM	
890-5930-16	FS 30	Total/NA	Solid	8015 NM	
890-5930-17	FS 31	Total/NA	Solid	8015 NM	
890-5930-18	FS 32	Total/NA	Solid	8015 NM	
890-5930-19	FS 33	Total/NA	Solid	8015 NM	
890-5930-20	FS 34	Total/NA	Solid	8015 NM	
890-5930-21	FS 35	Total/NA	Solid	8015 NM	
890-5930-22	FS 36	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

GC Semi VOA (Continued)

Analysis Batch: 70908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-23	FS 37	Total/NA	Solid	8015 NM	
890-5930-24	FS 38	Total/NA	Solid	8015 NM	
890-5930-25	FS 39	Total/NA	Solid	8015 NM	
890-5930-26	FS 40	Total/NA	Solid	8015 NM	
890-5930-27	FS 41	Total/NA	Solid	8015 NM	
890-5930-28	FS 42	Total/NA	Solid	8015 NM	
890-5930-29	FS 43	Total/NA	Solid	8015 NM	
890-5930-30	FS 44	Total/NA	Solid	8015 NM	
890-5930-31	FS 45	Total/NA	Solid	8015 NM	
890-5930-32	FS 46	Total/NA	Solid	8015 NM	
890-5930-33	FS 47	Total/NA	Solid	8015 NM	
890-5930-34	FS 48	Total/NA	Solid	8015 NM	
890-5930-35	FS 49	Total/NA	Solid	8015 NM	
890-5930-36	FS 50	Total/NA	Solid	8015 NM	
890-5930-37	FS 51	Total/NA	Solid	8015 NM	
890-5930-38	FS 52	Total/NA	Solid	8015 NM	
890-5930-39	FS 53	Total/NA	Solid	8015 NM	
890-5930-40	FS 54	Total/NA	Solid	8015 NM	
890-5930-41	FS 55	Total/NA	Solid	8015 NM	
890-5930-42	FS 56	Total/NA	Solid	8015 NM	
890-5930-43	FS 57	Total/NA	Solid	8015 NM	
890-5930-44	SW 04	Total/NA	Solid	8015 NM	
890-5930-45	SW 05	Total/NA	Solid	8015 NM	
890-5930-46	SW 06	Total/NA	Solid	8015 NM	
890-5930-47	SW 07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 70628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-1	FS 15	Soluble	Solid	DI Leach	
890-5930-2	FS 16	Soluble	Solid	DI Leach	
890-5930-3	FS 17	Soluble	Solid	DI Leach	
890-5930-4	FS 18	Soluble	Solid	DI Leach	
890-5930-5	FS 19	Soluble	Solid	DI Leach	
890-5930-6	FS 20	Soluble	Solid	DI Leach	
890-5930-7	FS 21	Soluble	Solid	DI Leach	
890-5930-8	FS 22	Soluble	Solid	DI Leach	
890-5930-9	FS 23	Soluble	Solid	DI Leach	
890-5930-10	FS 24	Soluble	Solid	DI Leach	
MB 880-70628/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70628/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70628/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5930-1 MS	FS 15	Soluble	Solid	DI Leach	
890-5930-1 MSD	FS 15	Soluble	Solid	DI Leach	

Leach Batch: 70629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-11	FS 25	Soluble	Solid	DI Leach	
890-5930-12	FS 26	Soluble	Solid	DI Leach	
890-5930-13	FS 27	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

HPLC/IC (Continued)

Leach Batch: 70629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-14	FS 28	Soluble	Solid	DI Leach	
890-5930-15	FS 29	Soluble	Solid	DI Leach	
890-5930-16	FS 30	Soluble	Solid	DI Leach	
890-5930-17	FS 31	Soluble	Solid	DI Leach	
890-5930-18	FS 32	Soluble	Solid	DI Leach	
890-5930-19	FS 33	Soluble	Solid	DI Leach	
890-5930-20	FS 34	Soluble	Solid	DI Leach	
890-5930-21	FS 35	Soluble	Solid	DI Leach	
890-5930-22	FS 36	Soluble	Solid	DI Leach	
890-5930-23	FS 37	Soluble	Solid	DI Leach	
890-5930-24	FS 38	Soluble	Solid	DI Leach	
890-5930-25	FS 39	Soluble	Solid	DI Leach	
890-5930-26	FS 40	Soluble	Solid	DI Leach	
890-5930-27	FS 41	Soluble	Solid	DI Leach	
890-5930-28	FS 42	Soluble	Solid	DI Leach	
890-5930-29	FS 43	Soluble	Solid	DI Leach	
890-5930-30	FS 44	Soluble	Solid	DI Leach	
MB 880-70629/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70629/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70629/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5930-11 MS	FS 25	Soluble	Solid	DI Leach	
890-5930-11 MSD	FS 25	Soluble	Solid	DI Leach	
890-5930-21 MS	FS 35	Soluble	Solid	DI Leach	
890-5930-21 MSD	FS 35	Soluble	Solid	DI Leach	

Leach Batch: 70630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-31	FS 45	Soluble	Solid	DI Leach	
890-5930-32	FS 46	Soluble	Solid	DI Leach	
890-5930-33	FS 47	Soluble	Solid	DI Leach	
890-5930-34	FS 48	Soluble	Solid	DI Leach	
890-5930-35	FS 49	Soluble	Solid	DI Leach	
890-5930-36	FS 50	Soluble	Solid	DI Leach	
890-5930-37	FS 51	Soluble	Solid	DI Leach	
890-5930-38	FS 52	Soluble	Solid	DI Leach	
890-5930-39	FS 53	Soluble	Solid	DI Leach	
890-5930-40	FS 54	Soluble	Solid	DI Leach	
890-5930-41	FS 55	Soluble	Solid	DI Leach	
890-5930-42	FS 56	Soluble	Solid	DI Leach	
890-5930-43	FS 57	Soluble	Solid	DI Leach	
890-5930-44	SW 04	Soluble	Solid	DI Leach	
890-5930-45	SW 05	Soluble	Solid	DI Leach	
890-5930-46	SW 06	Soluble	Solid	DI Leach	
890-5930-47	SW 07	Soluble	Solid	DI Leach	
MB 880-70630/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70630/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70630/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5930-31 MS	FS 45	Soluble	Solid	DI Leach	
890-5930-31 MSD	FS 45	Soluble	Solid	DI Leach	
890-5930-41 MS	FS 55	Soluble	Solid	DI Leach	
890-5930-41 MSD	FS 55	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

HPLC/IC

Analysis Batch: 70693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-1	FS 15	Soluble	Solid	300.0	70628
890-5930-2	FS 16	Soluble	Solid	300.0	70628
890-5930-3	FS 17	Soluble	Solid	300.0	70628
890-5930-4	FS 18	Soluble	Solid	300.0	70628
890-5930-5	FS 19	Soluble	Solid	300.0	70628
890-5930-6	FS 20	Soluble	Solid	300.0	70628
890-5930-7	FS 21	Soluble	Solid	300.0	70628
890-5930-8	FS 22	Soluble	Solid	300.0	70628
890-5930-9	FS 23	Soluble	Solid	300.0	70628
890-5930-10	FS 24	Soluble	Solid	300.0	70628
MB 880-70628/1-A	Method Blank	Soluble	Solid	300.0	70628
LCS 880-70628/2-A	Lab Control Sample	Soluble	Solid	300.0	70628
LCSD 880-70628/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70628
890-5930-1 MS	FS 15	Soluble	Solid	300.0	70628
890-5930-1 MSD	FS 15	Soluble	Solid	300.0	70628

Analysis Batch: 70694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-11	FS 25	Soluble	Solid	300.0	70629
890-5930-12	FS 26	Soluble	Solid	300.0	70629
890-5930-13	FS 27	Soluble	Solid	300.0	70629
890-5930-14	FS 28	Soluble	Solid	300.0	70629
890-5930-15	FS 29	Soluble	Solid	300.0	70629
890-5930-16	FS 30	Soluble	Solid	300.0	70629
890-5930-17	FS 31	Soluble	Solid	300.0	70629
890-5930-18	FS 32	Soluble	Solid	300.0	70629
890-5930-19	FS 33	Soluble	Solid	300.0	70629
890-5930-20	FS 34	Soluble	Solid	300.0	70629
890-5930-21	FS 35	Soluble	Solid	300.0	70629
890-5930-22	FS 36	Soluble	Solid	300.0	70629
890-5930-23	FS 37	Soluble	Solid	300.0	70629
890-5930-24	FS 38	Soluble	Solid	300.0	70629
890-5930-25	FS 39	Soluble	Solid	300.0	70629
890-5930-26	FS 40	Soluble	Solid	300.0	70629
890-5930-27	FS 41	Soluble	Solid	300.0	70629
890-5930-28	FS 42	Soluble	Solid	300.0	70629
890-5930-29	FS 43	Soluble	Solid	300.0	70629
890-5930-30	FS 44	Soluble	Solid	300.0	70629
MB 880-70629/1-A	Method Blank	Soluble	Solid	300.0	70629
LCS 880-70629/2-A	Lab Control Sample	Soluble	Solid	300.0	70629
LCSD 880-70629/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70629
890-5930-11 MS	FS 25	Soluble	Solid	300.0	70629
890-5930-11 MSD	FS 25	Soluble	Solid	300.0	70629
890-5930-21 MS	FS 35	Soluble	Solid	300.0	70629
890-5930-21 MSD	FS 35	Soluble	Solid	300.0	70629

Analysis Batch: 70695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-31	FS 45	Soluble	Solid	300.0	70630
890-5930-32	FS 46	Soluble	Solid	300.0	70630
890-5930-33	FS 47	Soluble	Solid	300.0	70630

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QC Association Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

HPLC/IC (Continued)

Analysis Batch: 70695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5930-34	FS 48	Soluble	Solid	300.0	70630
890-5930-35	FS 49	Soluble	Solid	300.0	70630
890-5930-36	FS 50	Soluble	Solid	300.0	70630
890-5930-37	FS 51	Soluble	Solid	300.0	70630
890-5930-38	FS 52	Soluble	Solid	300.0	70630
890-5930-39	FS 53	Soluble	Solid	300.0	70630
890-5930-40	FS 54	Soluble	Solid	300.0	70630
890-5930-41	FS 55	Soluble	Solid	300.0	70630
890-5930-42	FS 56	Soluble	Solid	300.0	70630
890-5930-43	FS 57	Soluble	Solid	300.0	70630
890-5930-44	SW 04	Soluble	Solid	300.0	70630
890-5930-45	SW 05	Soluble	Solid	300.0	70630
890-5930-46	SW 06	Soluble	Solid	300.0	70630
890-5930-47	SW 07	Soluble	Solid	300.0	70630
MB 880-70630/1-A	Method Blank	Soluble	Solid	300.0	70630
LCS 880-70630/2-A	Lab Control Sample	Soluble	Solid	300.0	70630
LCSD 880-70630/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70630
890-5930-31 MS	FS 45	Soluble	Solid	300.0	70630
890-5930-31 MSD	FS 45	Soluble	Solid	300.0	70630
890-5930-41 MS	FS 55	Soluble	Solid	300.0	70630
890-5930-41 MSD	FS 55	Soluble	Solid	300.0	70630

Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 15
Date Collected: 01/09/24 08:00
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 17:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 11:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 11:38	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70628	01/11/24 08:18	SA	EET MID
Soluble	Analysis	300.0		1			70693	01/11/24 19:53	CH	EET MID

Client Sample ID: FS 16
Date Collected: 01/09/24 08:05
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 11:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 11:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 12:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 12:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70628	01/11/24 08:18	SA	EET MID
Soluble	Analysis	300.0		1			70693	01/11/24 20:13	CH	EET MID

Client Sample ID: FS 17
Date Collected: 01/09/24 08:10
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 12:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 12:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 12:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 12:22	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70628	01/11/24 08:18	SA	EET MID
Soluble	Analysis	300.0		1			70693	01/11/24 20:20	CH	EET MID

Client Sample ID: FS 18
Date Collected: 01/09/24 08:15
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 12:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 12:31	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 18
Date Collected: 01/09/24 08:15
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70908	01/12/24 12:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 12:44	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70628	01/11/24 08:18	SA	EET MID
Soluble	Analysis	300.0		1			70693	01/11/24 20:27	CH	EET MID

Client Sample ID: FS 19
Date Collected: 01/09/24 08:20
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 12:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 13:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 13:06	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70628	01/11/24 08:18	SA	EET MID
Soluble	Analysis	300.0		1			70693	01/11/24 20:34	CH	EET MID

Client Sample ID: FS 20
Date Collected: 01/09/24 08:25
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-6
Matrix: Solid

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	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 17:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 17:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 13:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 13:28	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70628	01/11/24 08:18	SA	EET MID
Soluble	Analysis	300.0		1			70693	01/11/24 20:54	CH	EET MID

Client Sample ID: FS 21
Date Collected: 01/09/24 08:30
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 17:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 17:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 13:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 13:50	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 21
Date Collected: 01/09/24 08:30
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	70628	01/11/24 08:18	SA	EET MID
Soluble	Analysis	300.0		1			70693	01/11/24 21:01	CH	EET MID

Client Sample ID: FS 22
Date Collected: 01/09/24 08:35
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 18:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 18:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 10:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70628	01/11/24 08:18	SA	EET MID
Soluble	Analysis	300.0		1			70693	01/11/24 21:08	CH	EET MID

Client Sample ID: FS 23
Date Collected: 01/09/24 08:40
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 18:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 18:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 14:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 14:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70628	01/11/24 08:18	SA	EET MID
Soluble	Analysis	300.0		1			70693	01/11/24 21:15	CH	EET MID

Client Sample ID: FS 24
Date Collected: 01/09/24 08:45
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 18:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 14:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 14:34	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70628	01/11/24 08:18	SA	EET MID
Soluble	Analysis	300.0		1			70693	01/11/24 21:22	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 25
Date Collected: 01/09/24 08:50
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 19:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 19:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 15:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 15:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/11/24 23:37	CH	EET MID

Client Sample ID: FS 26
Date Collected: 01/09/24 08:55
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 19:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 15:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 15:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/11/24 23:58	CH	EET MID

Client Sample ID: FS 27
Date Collected: 01/09/24 09:00
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 19:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 19:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 16:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 16:05	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 00:05	CH	EET MID

Client Sample ID: FS 28
Date Collected: 01/09/24 09:05
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-14
Matrix: Solid

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	70840	01/15/24 08:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/15/24 20:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 20:12	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 28
Date Collected: 01/09/24 09:05
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70908	01/12/24 16:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 16:27	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 00:11	CH	EET MID

Client Sample ID: FS 29
Date Collected: 01/09/24 09:10
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	70845	01/15/24 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/16/24 04:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 04:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 16:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 16:49	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 00:18	CH	EET MID

Client Sample ID: FS 30
Date Collected: 01/09/24 09:15
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	70845	01/15/24 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/16/24 06:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 06:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 17:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 17:11	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 00:39	CH	EET MID

Client Sample ID: FS 31
Date Collected: 01/09/24 09:20
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	70845	01/15/24 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/16/24 06:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 06:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 17:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 17:34	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 31**Lab Sample ID: 890-5930-17****Date Collected: 01/09/24 09:20****Matrix: Solid****Date Received: 01/09/24 14:54**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 00:46	CH	EET MID

Client Sample ID: FS 32**Lab Sample ID: 890-5930-18****Date Collected: 01/09/24 09:25****Matrix: Solid****Date Received: 01/09/24 14:54**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70845	01/15/24 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/16/24 06:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 06:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 17:55	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 00:52	CH	EET MID

Client Sample ID: FS 33**Lab Sample ID: 890-5930-19****Date Collected: 01/09/24 09:30****Matrix: Solid****Date Received: 01/09/24 14:54**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70845	01/15/24 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/16/24 07:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 07:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 18:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 18:16	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 00:59	CH	EET MID

Client Sample ID: FS 34**Lab Sample ID: 890-5930-20****Date Collected: 01/09/24 09:35****Matrix: Solid****Date Received: 01/09/24 14:54**

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	70845	01/15/24 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/16/24 07:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 07:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/12/24 18:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70666	01/11/24 14:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 18:38	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 01:06	CH	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 35
Date Collected: 01/09/24 09:40
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 13:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 11:00	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 01:13	CH	EET MID

Client Sample ID: FS 36
Date Collected: 01/09/24 09:45
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 14:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 14:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 12:05	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 12:05	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 01:34	CH	EET MID

Client Sample ID: FS 37
Date Collected: 01/09/24 09:50
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 14:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 12:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 01:41	CH	EET MID

Client Sample ID: FS 38
Date Collected: 01/09/24 09:55
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 14:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 14:44	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 38
Date Collected: 01/09/24 09:55
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70908	01/13/24 12:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 12:48	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 02:01	CH	EET MID

Client Sample ID: FS 39
Date Collected: 01/09/24 10:00
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 15:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 15:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 13:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 13:10	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 02:08	CH	EET MID

Client Sample ID: FS 40
Date Collected: 01/09/24 10:05
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 18:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 18:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 13:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 13:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 02:15	CH	EET MID

Client Sample ID: FS 41
Date Collected: 01/09/24 10:10
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 18:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 18:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 13:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 13:53	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 41
Date Collected: 01/09/24 10:10
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 02:22	CH	EET MID

Client Sample ID: FS 42
Date Collected: 01/09/24 10:15
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 19:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 19:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 14:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 14:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 02:29	CH	EET MID

Client Sample ID: FS 43
Date Collected: 01/09/24 10:20
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 19:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 19:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 14:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 14:36	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 02:36	CH	EET MID

Client Sample ID: FS 44
Date Collected: 01/09/24 10:35
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 20:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 20:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 14:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 14:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70629	01/11/24 08:31	SA	EET MID
Soluble	Analysis	300.0		1			70694	01/12/24 02:43	CH	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 45
Date Collected: 01/09/24 10:40
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-31
Matrix: Solid

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	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 20:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 20:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 15:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 15:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 03:38	CH	EET MID

Client Sample ID: FS 46
Date Collected: 01/09/24 10:45
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 20:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 16:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 03:58	CH	EET MID

Client Sample ID: FS 47
Date Collected: 01/09/24 10:50
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 21:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 21:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 16:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 16:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 04:05	CH	EET MID

Client Sample ID: FS 48
Date Collected: 01/09/24 10:55
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 21:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 21:22	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 48
Date Collected: 01/09/24 10:55
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70908	01/13/24 16:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 16:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 04:12	CH	EET MID

Client Sample ID: FS 49
Date Collected: 01/09/24 11:00
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	70841	01/15/24 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/15/24 21:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/15/24 21:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 17:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 17:06	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 04:19	CH	EET MID

Client Sample ID: FS 50
Date Collected: 01/09/24 11:05
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	70845	01/15/24 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/16/24 07:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 07:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 17:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 17:28	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 04:40	CH	EET MID

Client Sample ID: FS 51
Date Collected: 01/09/24 11:10
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70845	01/15/24 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/16/24 08:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 08:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 17:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 17:50	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 51
Date Collected: 01/09/24 11:10
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 04:46	CH	EET MID

Client Sample ID: FS 52
Date Collected: 01/09/24 11:15
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70845	01/15/24 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/16/24 08:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 08:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 18:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 18:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 04:53	CH	EET MID

Client Sample ID: FS 53
Date Collected: 01/09/24 11:20
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-39
Matrix: Solid

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	70845	01/15/24 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/16/24 08:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 08:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 18:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 18:35	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 05:00	CH	EET MID

Client Sample ID: FS 54
Date Collected: 01/09/24 11:25
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70845	01/15/24 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70829	01/16/24 09:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 09:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 18:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70667	01/11/24 14:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 18:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 05:07	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: FS 55
Date Collected: 01/09/24 11:30
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-41
Matrix: Solid

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	70858	01/15/24 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/16/24 04:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 04:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 20:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	70668	01/11/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 20:42	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 05:14	CH	EET MID

Client Sample ID: FS 56
Date Collected: 01/09/24 11:35
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70858	01/15/24 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/16/24 04:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 04:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 21:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70668	01/11/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 21:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 05:34	CH	EET MID

Client Sample ID: FS 57
Date Collected: 01/09/24 11:40
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	70858	01/15/24 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/16/24 05:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 05:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 22:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70668	01/11/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 22:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 05:41	CH	EET MID

Client Sample ID: SW 04
Date Collected: 01/09/24 10:25
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70858	01/15/24 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/16/24 05:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 05:27	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: SW 04
Date Collected: 01/09/24 10:25
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70908	01/13/24 22:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	70668	01/11/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 22:27	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 06:02	CH	EET MID

Client Sample ID: SW 05
Date Collected: 01/09/24 10:30
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-45
Matrix: Solid

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	70858	01/15/24 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/16/24 05:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 05:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 22:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	70668	01/11/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 22:48	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 06:09	CH	EET MID

Client Sample ID: SW 06
Date Collected: 01/09/24 11:45
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70858	01/15/24 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/16/24 06:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 06:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 23:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	70668	01/11/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 23:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 06:16	CH	EET MID

Client Sample ID: SW 07
Date Collected: 01/09/24 11:50
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70858	01/15/24 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70828	01/16/24 06:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70979	01/16/24 06:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			70908	01/13/24 23:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70668	01/11/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70803	01/13/24 23:30	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Client Sample ID: SW 07
Date Collected: 01/09/24 11:50
Date Received: 01/09/24 14:54

Lab Sample ID: 890-5930-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	70630	01/11/24 08:36	SA	EET MID
Soluble	Analysis	300.0		1			70695	01/12/24 06:22	CH	EET MID

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: REMUDA 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

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 500 CTB

Job ID: 890-5930-1
SDG: 03C1558151 / 03C1558187

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5930-1	FS 15	Solid	01/09/24 08:00	01/09/24 14:54	2'
890-5930-2	FS 16	Solid	01/09/24 08:05	01/09/24 14:54	2'
890-5930-3	FS 17	Solid	01/09/24 08:10	01/09/24 14:54	2'
890-5930-4	FS 18	Solid	01/09/24 08:15	01/09/24 14:54	2'
890-5930-5	FS 19	Solid	01/09/24 08:20	01/09/24 14:54	2'
890-5930-6	FS 20	Solid	01/09/24 08:25	01/09/24 14:54	2'
890-5930-7	FS 21	Solid	01/09/24 08:30	01/09/24 14:54	2'
890-5930-8	FS 22	Solid	01/09/24 08:35	01/09/24 14:54	1'
890-5930-9	FS 23	Solid	01/09/24 08:40	01/09/24 14:54	1'
890-5930-10	FS 24	Solid	01/09/24 08:45	01/09/24 14:54	1'
890-5930-11	FS 25	Solid	01/09/24 08:50	01/09/24 14:54	1'
890-5930-12	FS 26	Solid	01/09/24 08:55	01/09/24 14:54	1'
890-5930-13	FS 27	Solid	01/09/24 09:00	01/09/24 14:54	1'
890-5930-14	FS 28	Solid	01/09/24 09:05	01/09/24 14:54	1'
890-5930-15	FS 29	Solid	01/09/24 09:10	01/09/24 14:54	1'
890-5930-16	FS 30	Solid	01/09/24 09:15	01/09/24 14:54	1'
890-5930-17	FS 31	Solid	01/09/24 09:20	01/09/24 14:54	1'
890-5930-18	FS 32	Solid	01/09/24 09:25	01/09/24 14:54	1'
890-5930-19	FS 33	Solid	01/09/24 09:30	01/09/24 14:54	1'
890-5930-20	FS 34	Solid	01/09/24 09:35	01/09/24 14:54	1'
890-5930-21	FS 35	Solid	01/09/24 09:40	01/09/24 14:54	1'
890-5930-22	FS 36	Solid	01/09/24 09:45	01/09/24 14:54	1'
890-5930-23	FS 37	Solid	01/09/24 09:50	01/09/24 14:54	1'
890-5930-24	FS 38	Solid	01/09/24 09:55	01/09/24 14:54	1'
890-5930-25	FS 39	Solid	01/09/24 10:00	01/09/24 14:54	1'
890-5930-26	FS 40	Solid	01/09/24 10:05	01/09/24 14:54	1'
890-5930-27	FS 41	Solid	01/09/24 10:10	01/09/24 14:54	1'
890-5930-28	FS 42	Solid	01/09/24 10:15	01/09/24 14:54	1'
890-5930-29	FS 43	Solid	01/09/24 10:20	01/09/24 14:54	1'
890-5930-30	FS 44	Solid	01/09/24 10:35	01/09/24 14:54	1'
890-5930-31	FS 45	Solid	01/09/24 10:40	01/09/24 14:54	1'
890-5930-32	FS 46	Solid	01/09/24 10:45	01/09/24 14:54	1'
890-5930-33	FS 47	Solid	01/09/24 10:50	01/09/24 14:54	1'
890-5930-34	FS 48	Solid	01/09/24 10:55	01/09/24 14:54	1'
890-5930-35	FS 49	Solid	01/09/24 11:00	01/09/24 14:54	1'
890-5930-36	FS 50	Solid	01/09/24 11:05	01/09/24 14:54	1'
890-5930-37	FS 51	Solid	01/09/24 11:10	01/09/24 14:54	1'
890-5930-38	FS 52	Solid	01/09/24 11:15	01/09/24 14:54	1'
890-5930-39	FS 53	Solid	01/09/24 11:20	01/09/24 14:54	1'
890-5930-40	FS 54	Solid	01/09/24 11:25	01/09/24 14:54	1'
890-5930-41	FS 55	Solid	01/09/24 11:30	01/09/24 14:54	1'
890-5930-42	FS 56	Solid	01/09/24 11:35	01/09/24 14:54	1'
890-5930-43	FS 57	Solid	01/09/24 11:40	01/09/24 14:54	1'
890-5930-44	SW 04	Solid	01/09/24 10:25	01/09/24 14:54	0 - 4'
890-5930-45	SW 05	Solid	01/09/24 10:30	01/09/24 14:54	0 - 2'
890-5930-46	SW 06	Solid	01/09/24 11:45	01/09/24 14:54	0 - 2'
890-5930-47	SW 07	Solid	01/09/24 11:50	01/09/24 14:54	0 - 1'

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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

Environment Testing
Xenco



Work Order No: _____

www.xenco.com Page 1 of 5

Project Manager:	Ben Bell	Bill To: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	bbell11@ensolum.com

Project Name:	REMUDA 520 CTB	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03455815/034558187				
Project Location:	32-27003-103.73669	Due Date:			
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm			
PO #:					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code
FS15	S	1/9/24	2'	0800	C	1	BTX Chlorides TOH	
FS16				0805				
FS17				0810				
FS18				0815				
FS19				0820				
FS20				0825				
FS21				0830				
FS22				0835				
FS23				0840				
FS24				0845				

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 SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471					

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 negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Meredith Roberts	Sam 8	1/9/24			14:54

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 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

Environment Testing

Xenco

Work Order No:

Page 2 of 2

Project Manager:	Ben Bell	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy Carlsbad, NM 88220	Address:	3104 E Greene St Carlsbad, NM 88220
City, State ZIP:	989-854-0853	City, State ZIP:	hne111@ensolum.com
Phone:		Email:	

Work Order Comments													
Program:		UST/PST	☐	PRP	☐	Brownfields	☐	RRC	☐	Superfund	☐		
State of Project:													
Reporting:		Level I	☐	Level II	☐	Level III	☐	PST/UST	☐	TRRP	☐	Level IV	☐
Deliverables:		EDD	☐	AdaPT		☐	Other:						

[illegible][illegible]

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 the client.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			1/9/84			
3						
6						

Revised Date: 08/25/2024 Rev. 2024



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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

Environment Testing

Xenco

Work Order No: _____

Page 3 of 5
www.xenco.com

Project Manager: Ben Bell		Bill to: (if different)		Garrett Green	
Company Name: Ensolum, LLC		Company Name:		XTO Energy	
Address: 3122 Nat'l Parks Hwy		Address:		3104 E Greene St	
City, State ZIP: Carlsbad, NM 88220		City, State ZIP:		Carlsbad, NM 88220	
Phone: 989-854-0853		Email:		bbell11@ensolum.com	

Project Name: REMUDA 500 CTB		Turn Around		Pres. Code	
Project Number: 03C155B15/03C155B107		☒ Routine ☐ Rush			
Project Location: 32-27003-103-913669		Due Date:			
Sampler's Name: Meredith Roberts		TAT starts the day received by the lab, if received by 4:30pm			
PO #:					

SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No	
Samples Received Intact:		Yes No		Thermometer ID: T-0.2	
Cooler Custody Seals:		Yes No N/A		Correction Factor: -0.2	
Sample Custody Seals:		Yes No N/A		Temperature Reading: -1.2	
Total Containers:				Corrected Temperature: -1.2	

Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont		Parameters		ANALYSIS REQUEST		Preservative Codes	
FS35		S		1/9/24		0940		1'		C		1		X		Cu		None: NO	
FS36		S		1/9/24		0945		1'		C		1		X		Chlorides		Cool: Cool	
FS37		S		1/9/24		0950		1'		C		1		X		TPH		MeOH: Me	
FS38		S		1/9/24		0955		1'		C		1		X		Cu		HNO ₃ : HN	
FS39		S		1/9/24		1000		1'		C		1		X		Cu		H ₂ SO ₄ : H ₂	
FS40		S		1/9/24		1005		1'		C		1		X		Cu		H ₃ PO ₄ : HP	
FS41		S		1/9/24		1010		1'		C		1		X		Cu		NaHSO ₄ : NABIS	
FS42		S		1/9/24		1015		1'		C		1		X		Cu		Na ₂ S ₂ O ₃ : NaSO ₃	
FS43		S		1/9/24		1020		1'		C		1		X		Cu		Zn Acetate+NaOH: Zn	
FS44		S		1/9/24		1035		1'		C		1		X		Cu		NaOH+Ascorbic Acid: SAPC	

Work Order Comments		Program: UST/PST ☐ PAP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:		Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:			

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	SiO ₂	Na	Sr	Tl	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed																															
TCPL/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U																															
Hg: 1631 / 245.1 / 7470 / 7471																															

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	Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1					11/9/84 15:54
3					
6					

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 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

Environment Testing
 Xenco



Work Order No: _____

www.xenco.com Page 4 of 5

Project Manager:	Ben Belili	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0854	Email:	bbelili@ensolum.com

Project Name:	REMUDA 500 CIB	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03655815/03655818				
Project Location:	32.27003-103.93669	Due Date:			
Sampler's Name:	Mercedith Roberts	TAT starts the day received by the lab, if received by 4:30pm			
P.O. #:					

SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:			
Cooler Custody Seals:	Yes No N/A	Correction Factor:			
Sample Custody Seals:	Yes No N/A	Temperature Reading:			
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code
FS45	S	1/9/24	1040	1'	C	1	ATrx	
FS46			1045				Chlorides	
FS47			1050				TPH	
FS48			1055					
FS49			1100					
FS50			1105					
FS51			1110					
FS52			1115					
FS53			1120					
FS54			1125					

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 SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631/245.1/7470/7471		

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<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
1	2	3	4
5	6	7	8

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Environment Testing
Xenco

Work Order No: _____

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Project Manager:	Ben Belili	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	bbelili@ensolum.com

Project Name:	REMUDA 500 C7B	Turn Around	☒ Routine ☐ Rush
Project Number:	036155815/0361558187	Due Date:	
Project Location:	32.27003, -103.03669	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Meredith Roberts	Wet Ice:	Yes No
P.O. #:		Thermometer ID:	Turned
		Correction Factor:	-0.2
		Temperature Reading:	-1.2
		Corrected Temperature:	-1.1

Project Name:	REMUDA 500 C7B	Turn Around	☒ Routine ☐ Rush
Project Number:	036155815/0361558187	Due Date:	
Project Location:	32.27003, -103.03669	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Meredith Roberts	Wet Ice:	Yes No
P.O. #:		Thermometer ID:	Turned
		Correction Factor:	-0.2
		Temperature Reading:	-1.2
		Corrected Temperature:	-1.1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FSS5	S	1/9/24	1130	1'	C	1			None: NO	Incident #5:
FSS6			1135						Cool: Cool	nAPP2234832761
FSS7			1140						MeOH: Me	nAPP2306544797
SWD4			1025	0-4'					HCL: HC	Cost Center:
SWD5			1030	0-2'					HNO ₃ : HN	1067601001
SWD6			1145	0-2'					H ₂ SO ₄ : H ₂	mroberts@ensolum.com
SWD7			1150	0-1'					H ₃ PO ₄ : HP	
									NaHSO ₄ : NABIS	
									Na ₂ S ₂ O ₃ : NaSO ₃	
									Zn Acetate+NaOH: Zn	
									NaOH+Ascorbic Acid: SAPC	

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 SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1/9/24 15:27	

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5930-1

SDG Number: 03C1558151 / 03C1558187

Login Number: 5930

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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: 890-5930-1
SDG Number: 03C1558151 / 03C1558187

Login Number: 5930
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/11/24 11:21 AM

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

QUESTIONS

Action 430712

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 430712
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2234832761
Incident Name	NAPP2234832761 REMUDA 500 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAB1834557126] REMUDA 500 TANK BATTERY

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	REMUDA 500 CTB
Date Release Discovered	11/30/2022
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 7 BBL Recovered: 4 BBL Lost: 3 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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QUESTIONS, Page 2

Action 430712

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 430712
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 02/11/2025
--	---

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QUESTIONS, Page 3

Action 430712

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 430712
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Between 1000 (ft.) and ½ (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	13900
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	455
GRO+DRO (EPA SW-846 Method 8015M)	455
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/04/2024
On what date will (or did) the final sampling or liner inspection occur	01/09/2024
On what date will (or was) the remediation complete(d)	01/09/2024
What is the estimated surface area (in square feet) that will be reclaimed	11150
What is the estimated volume (in cubic yards) that will be reclaimed	791
What is the estimated surface area (in square feet) that will be remediated	11150
What is the estimated volume (in cubic yards) that will be remediated	791
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 430712

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	430712
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 02/11/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 430712

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 430712
	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 430712

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	430712
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	300478
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/11/2024
What was the (estimated) number of samples that were to be gathered	60
What was the sampling surface area in square feet	11500

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	11150
What was the total volume (cubic yards) remediated	791
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	11150
What was the total volume (in cubic yards) reclaimed	791
Summarize any additional remediation activities not included by answers (above)	see report
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 02/11/2025

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Phone: (505) 476-3441

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Santa Fe, NM 87505

QUESTIONS, Page 7

Action 430712

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 430712
	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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 430712

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 430712
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2234832761 REMUDA 500 CTB, thank you. This Remediation Closure Report is approved.	2/17/2025