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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2317850727
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy				OGRID 4	5380		
- 1					Contact Telephone 575-200-0729		
		en@exxonmobil.c	om	Incident #	(assigned by OCD)		
			reet, Carlsbad, New	Mexico, 88220			
			т	CD 1 C			
			Location (of Release So			
Latitude 32.3	27040		<u> </u>	Longitude	Longitude		
			(NAD 83 in decii	mal degrees to 5 decim			
		Tank Battery		Site Type	Tank Battery		
Date Release I	Discovered	06/20/2023		API# (if app	plicable)		
Unit Letter	Section	Township	Range	Coun	nty		
О	25	23S	29E	Edd	-		
Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release							
Material(s) Released (Select all that apply and attach calculat Crude Oil Volume Released (bbls)			Volume Recovered (bbls)				
roduced ?	Water	Volume Release	ed (bbls) 12.01		Volume Recovered (bbls) 6.00		
Is the concentration of total dissolved soli in the produced water >10,000 mg/l?		, ,	¥ Yes □ No				
Condensat	te	Volume Release	ed (bbls)		Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)				
Other (des	scribe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)		
Cause of Rele	Internal		a hole on the main contractor has been		piperack to release fluids to soil. All free fluids were ediation purposes.		

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Page 2 Oil Conservation Division

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Incident ID	NAPP2317850727	
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon N/A	sible party consider this a major release?
☐ Yes 🗷 No		
If YES, was immediate n N/A	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
▼ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
∡ All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain v	why:
NA		
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance o and/or regulations.	required to report and/or file certain release noti- ment. The acceptance of a C-141 report by the C rate and remediate contamination that pose a thre of a C-141 report does not relieve the operator of	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Garrett G	reen	Title: SSHE Coordinator
Signature:	At Dun	Date: 6/26/2023
email: garrett.green@exx	konmobil.com	Telephone: 575-200-0729
OCD Only		
Received by: Shelly W	ells	Date: <u>6/28/2023</u>

Location:	Remuda 500 TB		
Spill Date:	6/20/2023		
•	Area 1		
Approximate Are	ea =	366.00	sq. ft.
Average Saturati	on (or depth) of spill =	2.50	inches
Average Porosity	r Factor =	0.15	
	VOLUME OF LEAK		
Total Crude Oil =		0.00	bbls
Total Produced \	Vater =	2.04	bbls
	Area 2		
Approximate Are	ea =	1493.00	sq. ft.
Average Saturati	on (or depth) of spill =	1.00	inches
Average Porosity	Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil =		0.00	bbls
Total Produced \	Vater =	0.66	bbls
	Area 3		
Approximate Are	ea =	1039.00	sq. ft.
	on (or depth) of spill =		inches
Average Porosity	r Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil =		0.00	bblc
Total Produced \		0.00	
Total Froduced V	vater –	0.55	בועמ
	Area 4		
Approximate Are	ea =	3571.00	sq. ft.
Average Saturati	on (or depth) of spill =	1.50	inches
Average Porosity	Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil =		0.00	bbls
Total Produced \		8.38	
	TOTAL VOLUME OF LEAK		
Total Crude Oil =		0.00	bbls
Total Produced		12.01	
	TOTAL VOLUME RECOVERED	•	
Total Crude Oil =		0.00	bbls
Total Produced	Water =	6.00	bbls

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

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

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

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 233465

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	233465
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	By Condition	Condition Date
scwel	s None	6/28/2023

Ate of New Mexico

Incident ID	NAPP2317850727
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>110 (ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	X Yes ☐ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information 				
☐ Topographic/Aerial maps				

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Laboratory data including chain of custody

Received by OCD: 9/15/2023 12:25:56 PM Form C-141 State of New Mexico Oil Conservation Division Page 4

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JAPP231785	0727				

Incident ID	NAPP2317850727
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Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Garrett Green	Title: SSHE Coordinator	
Signature: Jak Luur	Date: <u>09/14/2023</u>	
email: garrett.green@exxonmobil.com	Telephone: <u>575-200-0729</u>	
OCD Only		
Received by:	Date:	

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Incident ID	NAPP2317850727	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.									
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)										
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.									
☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.										
Extents of contamination must be fully delineated.										
Contamination does not cause an imminent risk to human health, the environment, or groundwater.										
rules and regulations all operators are required to report and/or file of which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD as	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.									
Printed Name: Garrett Green	Title: SSHE Coordinator									
Signature: Sath Sur	Date: <u>09/14/2023</u>									
email: garrett.green@exxonmobil.com	Telephone: <u>575-200-0729</u>									
OCD Only										
oob om,										
Received by:	Date:									
☐ Approved ☐ Approved with Attached Conditions of	Approval									
Signature:	Date:									



September 14, 2023

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

Re: Deferral Request

Remuda 500 Tank Battery

Incident Number nAPP2317850727

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document assessment, delineation, excavation, and soil sampling activities at the Remuda 500 Tank 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. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2317850727 until the Site is reconstructed, and/or the well pad is abandoned.

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 (32.27040°, -103.93747°) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (NMSLO).

On June 20, 2023, corrosion of a main produced water line resulted in the release of approximately 12.01 barrels (bbls) of produced water onto the surface of the well pad and around active production equipment and pipelines. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; 6.0 bbls of produced water were recovered. XTO submitted a Release Notification Form C-141 (Form C-141) on June 26, 2023. The release was assigned Incident Number nAPP2317850727.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On January 5, 2021, a soil boring permitted by New Mexico Office of the State Engineer (NMOSE file number C-04494) was completed approximately 0.28 miles northwest of the Site utilizing a truck-mounted hollow-stem auger

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 882200 | ensolum.com

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 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 dry wash, located approximately 99 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Potential Site receptors are identified on Figure 1.

Based on the existence of a nearby significant watercourse, 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): 100 mg/kg
- Chloride: 600 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.

SITE ASSESSMENT ACTIVITIES

On July 7, 2023, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven delineation soil samples (SS01 through SS07) were collected from a depth of approximately 0.5 feet bgs. SS01 through SS04 were collected within the release extent and SS05 through SS07 were collected outside the release extent to define the edge of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® QuanTab® chloride test strips, respectively. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

The delineation 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-gasoline range organics (GRO), TPH-diesel range organics (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 are collected may not have equilibrated to the 6 degrees Celsius required for shipment and long-term storage but are considered to have been received in acceptable condition by the laboratory.



Laboratory analytical results for soil samples SS01 through SS04, collected within the release extent, indicated concentrations of chloride exceeded the Closure Criteria. Soil samples collected outside of the release extent (SS05 through SS07) exhibited COC concentrations in compliance with the Closure Criteria and successfully defined the lateral extent of the release. Based on the elevated chloride concentrations detected within the release extent, additional delineation and excavation of impacted soil appeared warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Following laboratory analytical results from the Site assessment, Ensolum returned to the Site between July 18 and July 20, 2023, to oversee delineation and excavation activities. Three potholes (PH01 through PH03) and three boreholes (BH01 through BH03) were advanced within and around the release extent by use of heavy equipment and hand auger, respectively, to assess the lateral and vertical definition of the release. Potholes PH01 through PH03 were advanced in the vicinity of delineation soil samples SS01 through SS03, respectively, and borehole BH03 was advanced in the vicinity of soil sample SS06. Discrete delineation soil samples were collected from each pothole and borehole at depths ranging from 0.5 feet to 3 feet bgs. The delineation soil samples were field screened, handled, and submitted for analysis for the same COCs as described above. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. All delineation soil sample locations are depicted on Figure 2.

Soil was excavated from the area represented by delineation soil samples SS01/PH01 through SS03/PH03 and SS04, all of which contained elevated chloride concentrations exceeding the Closure Criteria. Excavation activities were performed by use of heavy equipment. The entirety of the excavation occurred on the well pad. To direct excavation activities, Ensolum personnel screened soil as described above. Excavation of impacted soil was limited due to the presence of active production equipment and associated flowlines. As such, excavation activities were completed to the maximum extent practicable (MEP).

Following removal of accessible soil, Ensolum personnel collected 5-point composite soil samples representing up to 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS12 were collected from the floor of the excavation at depths ranging from 2 feet to 4 feet bgs. Composite soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 3.5 feet bgs. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 2,261 square feet. A total of approximately 260 cubic yards of impacted soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Delineation soil samples BH01 and SS01 through SS04, collected from within the release extent at a depth of 0.5 feet bgs, and confirmation sidewall soil sample SW04 collected from ground surface to 3 feet bgs, contained chloride concentrations exceeding Site Closure Criteria. All soil samples with elevated chloride concentrations were removed during excavation activities except for borehole sample



BH01 (8,000 mg/kg) and sidewall soil sample SW04 (1,080 mg/kg). Due to active production equipment and pipelines present in the area, these soil samples could not be removed.

All other delineation soil samples and excavation confirmation soil samples collected were in compliance with the Site Closure Criteria for all COCs. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D. All sampling notifications to NMOCD are included in Appendix E.

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 oil and gas well is plugged and abandoned (P&A'd) 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. Specifics related to this release as they pertain to reclamation activities include:

- Approximately 260 cubic yards of impacted soil were excavated, transported, and properly disposed of at a State Of New Mexico permitted landfill;
- The excavation will be backfilled with locally sourced caliche to match the well pad's current grade;
- The backfilled area will not be seeded since it is within the active well pad;
- Erosion control management is not necessary since the backfilled area is within the active well pad; and
- Backfilling of the excavation is tentatively scheduled to be completed in the next few weeks.

Photographic documentation of backfilling will be provided to the NMSLO under a separate cover.

DEFERRAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines overlying some of the release and preventing full excavation of impacted soil. Further remediation in this area would require major facility deconstruction. The impacted soil remaining in place is delineated vertically by delineation soil samples BH01A collected at 3 feet bgs and laterally delineated north and east by delineation soil samples from boreholes BH02/BH02A and SS06/BH03, and laterally delineated west and south through excavation confirmation soil samples SW01 through SW03, and floor soil samples FS02, FS03, FS09, and FS10. The estimated area of remaining impacted soil measures approximately 1,767 square feet and, assuming a depth of 3 feet based on the soil sample results listed above, a total of approximately 196 cubic yards of chloride impacted soil remains in place. The deferral area and all delineation and excavation soil samples used to define the deferral area are presented on Figure 4.

The deferral area is limited to the immediate vicinity of production equipment and flowlines on the caliche well pad. The potential for residual impacts to encounter sensitive receptors is low. XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet bgs, and the impacted soil remaining in place is limited in areal and vertical extent.

Based on the presence of active production equipment and pipelines within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of



final remediation for Incident Number nAPP2317850727 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely, **Ensolum, LLC**

Benjamin J. Belill Project Geologist

Daniel Moir, PG Senior Geologist

cc: Garrett Green, XTO

Tommee Lambert, XTO

NMSLO

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations Figure 3 Excavation Soil Sample Locations

Figure 4 Deferral Area Map

Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

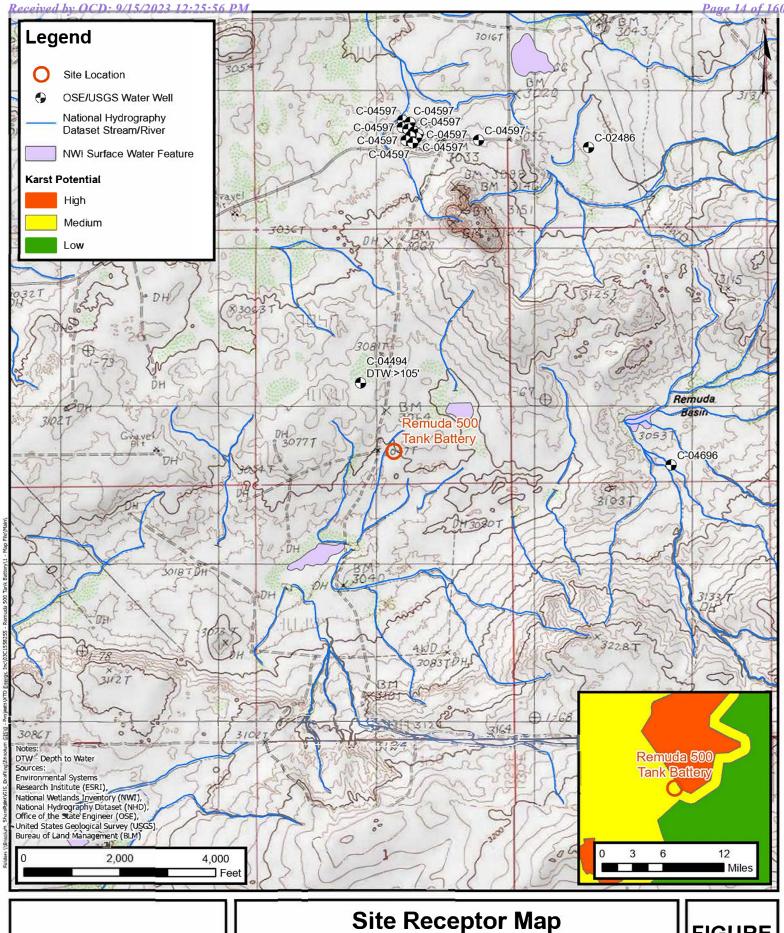
Appendix C Lithologic / Soil Sampling Logs

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

Appendix E NMOCD Email Notifications



FIGURES



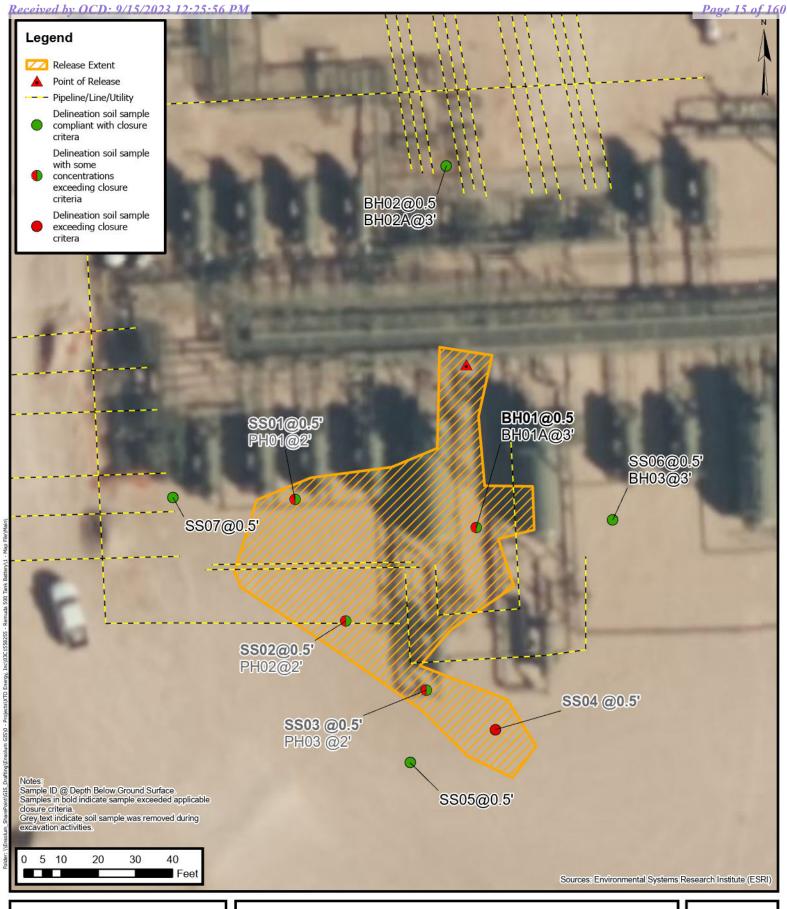


Site Receptor Map

XTO Energy, Inc Remuda 500 Tank Battery Incident Number: NAPP2317850727 Unit O, Sec 25, T23S, R29E Eddy County, New Mexico

FIGURE

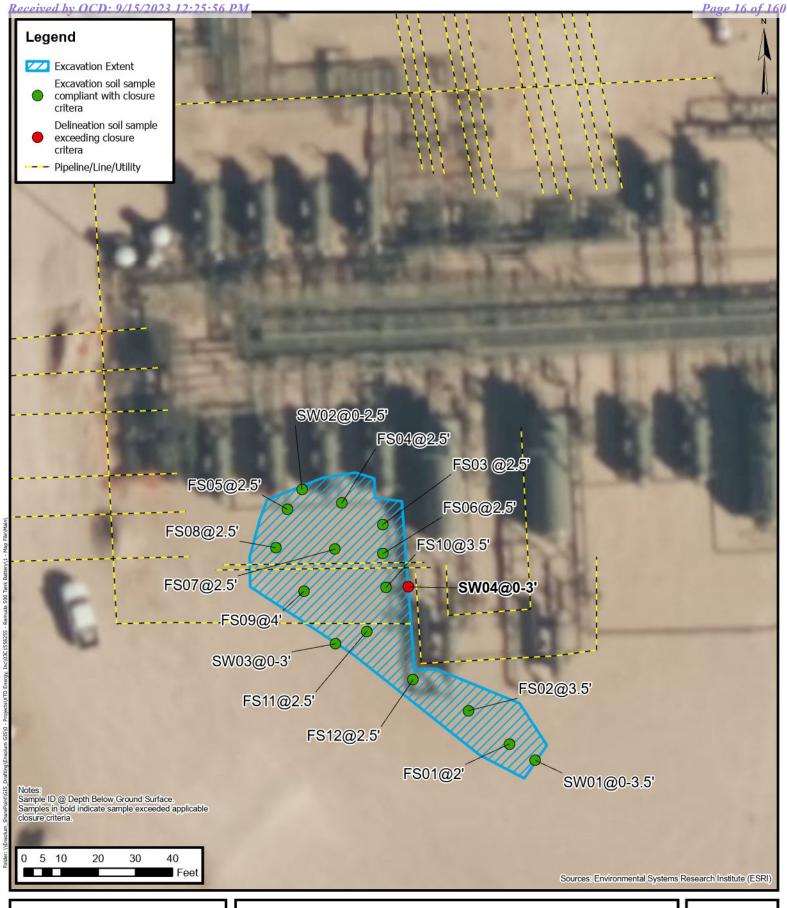
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Delineation Soil Sample Locations

XTO Energy, Inc Remuda 500 Tank Battery Incident Number: NAPP2317850727 Unit O, Sec 25, T23S, R29E Eddy County, New Mexico FIGURE 2

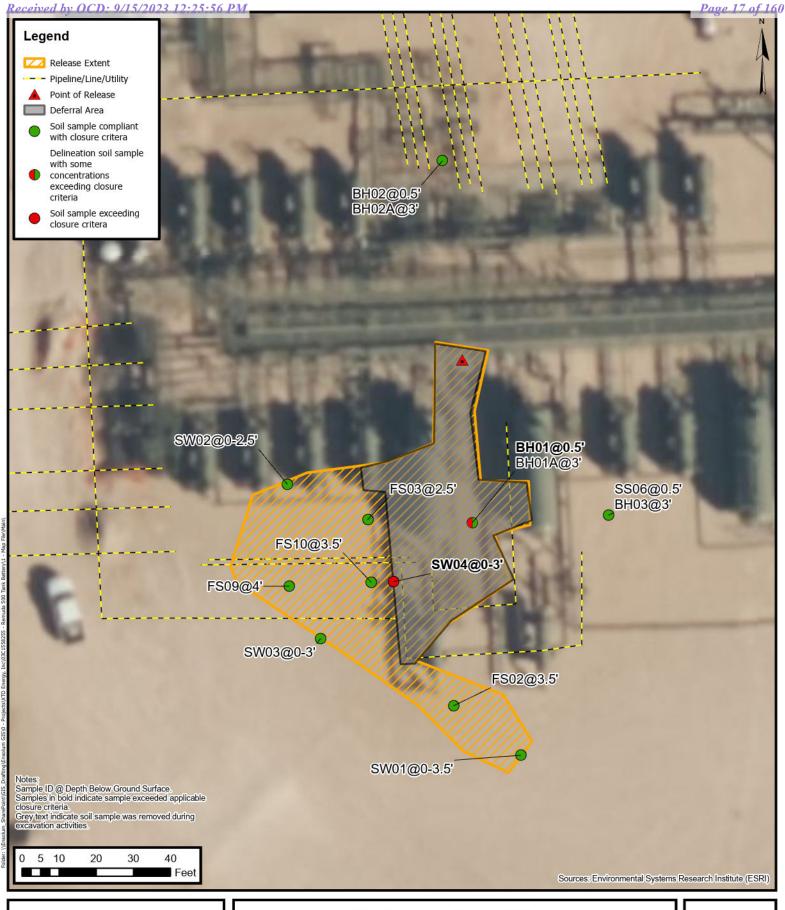




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Excavation Soil Sample Locations

XTO Energy, Inc Remuda 500 Tank Battery Incident Number: NAPP2317850727 Unit O, Sec 25, T23S, R29E Eddy County, New Mexico FIGURE 3





Deferral Area Map

XTO Energy, Inc Remuda 500 Tank Battery Incident Number: NAPP2317850727 Unit O, Sec 25, T23S, R29E Eddy County, New Mexico FIGURE 4



TABLES

1 of 1



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Remuda 500 Tank 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 CI	osure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delir	neation Soil Sar	nples				
SS01	07/07/2023	0.5	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	< 50.5	11,400
PH01	07/18/2023	2	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	293
\$\$02	07/07/2023	0.5	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3	<50.3	10,900
PH02	07/18/2023	2	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	<49.6	407
SS03	07/07/2023	0.5	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	13,800
PH03	07/18/2023	2	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	275
\$\$04	07/07/2023	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	1,810
SS05	07/07/2023	0.5	<0.00202	<0.00403	<50.3	<50.3	<50.3	<50.3	<50.3	288
SS06	07/07/2023	0.5	<0.00200	<0.00401	<49.6	<49.6	<49.6	<49.6	<49.6	163
BH03	07/20/2023	3	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	459
SS07	07/07/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	476
BH01	07/20/2023	0.5	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	8,000
BH01A	07/20/2023	3	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	379
BH02	07/20/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	101
BH02A	07/20/2023	3	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	212
				Confi	rmation Soil Sa	ımples				
FS01	07/18/2023	2	<0.00200	<0.00401	<50.3	<50.3	<50.3	<50.3	<50.3	265
FS02	07/20/2023	3.5	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	504
FS03	07/20/2023	2.5	<0.00202	<0.00404	<50.5	<50.5	<50.5	<50.5	<50.5	426
FS04	07/19/2023	2.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	457
FS05	07/19/2023	2.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	444
FS06	07/20/2023	2.5	<0.00202	<0.00403	<49.6	<49.6	<49.6	<49.6	<49.6	448
FS07	07/20/2023	2.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	561
FS08	07/20/2023	2.5	<0.00198	<0.00396	<49.6	<49.6	<49.6	<49.6	<49.6	562
FS09	07/20/2023	4	<0.00200	<0.00400	<50.2	<50.2	<50.2	<50.2	<50.2	572
FS10	07/20/2023	3.5	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	442
FS11	07/20/2023	2.5	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	465
FS12	07/20/2023	2.5	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	436
SW01	07/19/2023	0 - 3.5	<0.00201	<0.00402	<50.4	64.9	<50.4	64.9	64.9	412
SW02	07/19/2023	0 - 2.5	<0.00202	<0.00403	<50.2	<50.2	<50.2	<50.2	<50.2	380
SW03	07/20/2023	0 - 3	<0.00198	<0.00397	<50.4	<50.4	<50.4	<50.4	<50.4	301
SW04	07/20/2023	0 - 3	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	1,080

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code Grey-text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records

LITHOLOGIC / SOIL SAMPLING Lat/Long: Field Screening Comments: Lithology remarks only. No field screenings: Dry hole	evens Street Mexico 882	et 1220	BH or PH Name: BH01 (C-04494) Site Name: Remu RP or Incident Numbe LTE Job Number: Logged By BB, LAD, FS Hole Diameter: 6.25", 4.25"	Date: 11/18/2020, 12/02/20, 01/05/2021 da North 25 Observation Well TE012919039 Method: Hollow Stem Auger, sonic Total Depth: 105'
	Depth t bgs)	Symbol	Lithology/R	Remarks
	1 SP- 2 3 4 CC 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	0-1': SAI some roo 1-4': SAI grain, soi 4-9': CAI rounded 9-14': At 14-19': S	ots, no stain, no odor ND, dry, reddish-light brown me rounded caliche pebble	gravel and pebbles

Lat/Lo	ng: lents: logy remark	nts: y remarks only. No field screenings: Dry hole							BH or PH Name: BH01 (C-04494) Site Name: RP or Incident Numbe LTE Job Number: Logged By BB, LAD, FS Hole Diameter: 6.25", 4.25" Lith	3	Date: 11/18/2020, 12/02/20, 01/05/2021 Ida North 25 Observation Well TE012919039 Method: Hollow Stem Auger, sonic Total Depth: 105'
D			Z			26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 45 46 47 48 49	OL DOL	consolid no odor, 34-39': 3 features At 39': E 39-42': 1 consolid odor, light 42-45': 3 (>1mm) At 48': \$ 48-56': 48-56	sted, cohesive, trace sharp transition Sub-angular calcium (1-3mm), tan-light be gegin air rotory (4.25 DOLOMETIC LIMES ated, with dissolution to moderate react Some light gray dolometry dolometry and the constant of the	e calicher carborown 5") STONE In feature tion with omite work with new	ith trace dissolution features

									BH or PH Name:	Date:	
7			7		WS	P USA					
				-			Stroot		BH01 (C-04494) Site Name: Remuda	11/18/2020. 12/02/2020, 1/5/2021	
				Car	08 West S Isbad, Ne	stevens s w Mexico	88220				
				Gai	223,110		33223		RP or Incident Number: LTE Job Number: TE012919039		
		LITHO	വ റദ	IC / SOIL	SAMPI	ING LO	Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic			
Lat/Lo	na.		JEOO	10 / 0011	Field Scre				Hole Diameter:	Total Depth:	
	9.					- 3			6.25", 4.25"	105'	
Comm	nents: ogic log on	v po field									
Littioid	igic log off	y, no neic	301661	iiigs			~				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology	/Remarks	
						51	DOL	48-56'	Advanced borehole with	new air rotary bit (12/02/20),	
					-	52				ated, dark gray- banding, no stain	
					-	53					
					-	54					
					_	55					
					_	56			Restarted borehole on 1/5	-	
					_	57		calcium	crystalline veins (<1mm)	ay-gray, well consolidated, some , some dissolution features	
					_	_ 58			vith fine calcite crystalline ssolution features, no sta	, trace orange oxidation staining in, no odor	
					-	59				ystalline dolomitic limestone	
					-	60				ne veins (<1mm), pale green-	
					-	62			•		
					- -	63		high pla		lish brown, poorly consolidated, nt coarse crystalline gypsum, few	
					-	64		69-81' :	GYPSUM with Anhydrite,	dry, greenish gray, some pale	
7			N		-	65	011.0	no odor	veil consolidated, finr crys	stalline, 20% anhydrite, no stain,	
D			IN		-	66	CH-S				
					-	67					
					-	68					
D			N		_	69	GYP	-			
			1 4		_	70					
					_	71					
					-	72					
					-	73 74					
					-	75					
L					<u> </u>	13		<u> </u>			

				12.23.30					DLI or DLI Namo	Data	
7					WS	P USA			BH or PH Name:	Date:	
							Stroot		BH01 (C-04494) Site Name: Rer	11/18/2020. 12/02/2020, 1/5/2021 muda North 25 Observation Well	
				Car	08 West S Isbad, Ne	Stevens S w Mexico	street 88220		RP or Incident Number:		
									LTE Job Number: TE012919039		
LITHOLOGIC / SOIL SAMPLING LOG									Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic	
Lat/Lo	ng:				Field Scre				Hole Diameter:	Total Depth:	
									6.25", 4.25"	105'	
Comm Litholo	ients: igic log on	ly, no field	d screei	nings							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol	60-81'		ogy/Remarks	
D			S Z	8		76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 91 92 93	GYP	yellow, v no odor 81-98': consolid gypsum 85-86.5' gypsum, 90-98': At 97': 0 98-99.5' consolid 99.5-108	MUDSTONE, moist, of ated, high plasticity, of inclusions, no stain, respectively. Some fine grain browdark gray-gray gyspursted, fine-coarse crysts: Sandy SILTSTON	consolidated coarse crystalline	
D			N		-	96 97 98 99	GYP				
D			N]	100	ML-S				

	у о съ	. 7/10//	10210	12:23:30	177				I		Page
_					WS	P USA			BH or PH Name:	Date:	
									BH01 (C-04494)	11/18/2020. 12/02/2020,	
		_		Car	08 West S Isbad, Ne	Stevens S	Street			muda North 25 Observation Well	
				Cai	isbau, ive	W WEXICO	00220		RP or Incident Number: LTE Job Number: TE012919039		
		I ITU		IC / SOII	SAMDI	INGLO	G		Logged By BB, LAD, FS	Method: Hollow Stem Au	Igor conic
Lat/Lo	na.	LIIII	JLUG	10 / 3011	Field Scre		0		Hole Diameter:	Total Depth:	iger, sonic
20020	9.								6.25", 4.25"	105'	
Comm	nents: ogic log on	ly no field	d scree	ninge							
Moisture Content		Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol			logy/Remarks	
					<u> </u> -	101	ML-S			E, moist, brown, some gra % very fine grain sand, no	
					- -	103			Thin (<1mm) lamina ringer (4cm thick)	ted black/gray well consoli	idated
					-	104					
D			N		- -	106		TD @ 1	05' bgs (1/5/2021)		
					- -	107					
					- -	108					
					- -	110					
					- -	111					
					_	112 113					
					- - -	114					
					- -	115					
					-	116 117					
					-	117					
					- -	119					
					-	120					
					-	121					
					- -	123					
					- -	124					
					<u> </u>	125					



APPENDIX B

Photographic Log



Photographic Log XTO Energy, Inc Remuda 500 Tank Battery Incident Number nAPP2317850727





Date: 7/7/2023 Photograph 1 Description: Site assessment activities, release extent

View: North

Date: 7/7/2023 Photograph 2 Description: Site assessment activities, release extent

View: North





Photograph 3 Date: 7/19/2023

Description: Final excavation extent

View: North

Photograph 4 Date: 7/19/2023

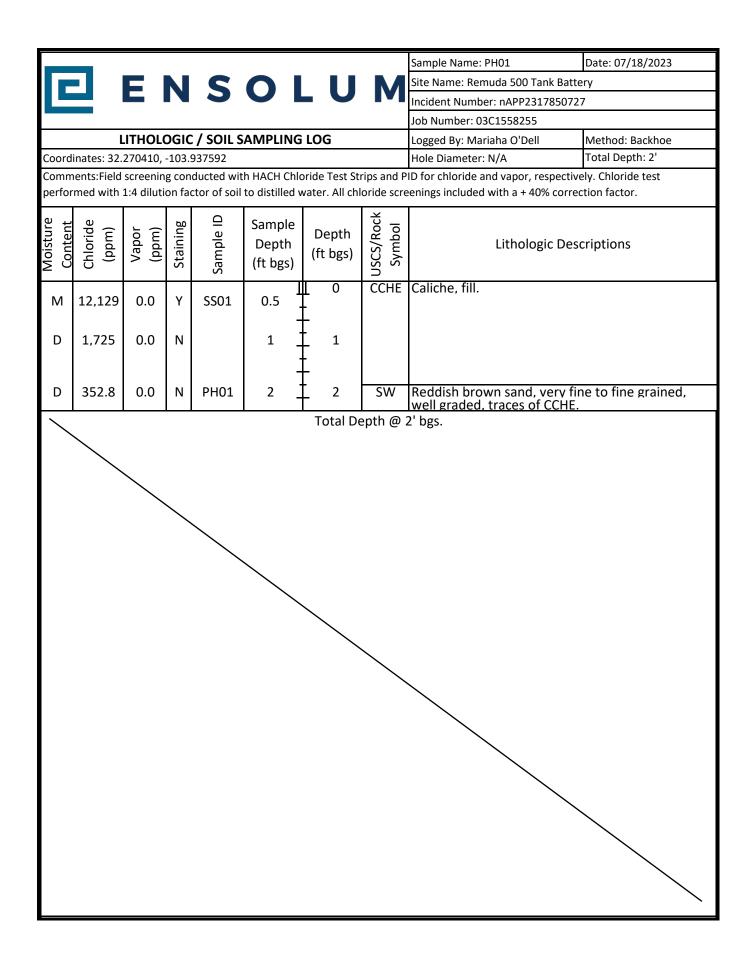
Description: Final excavation extent

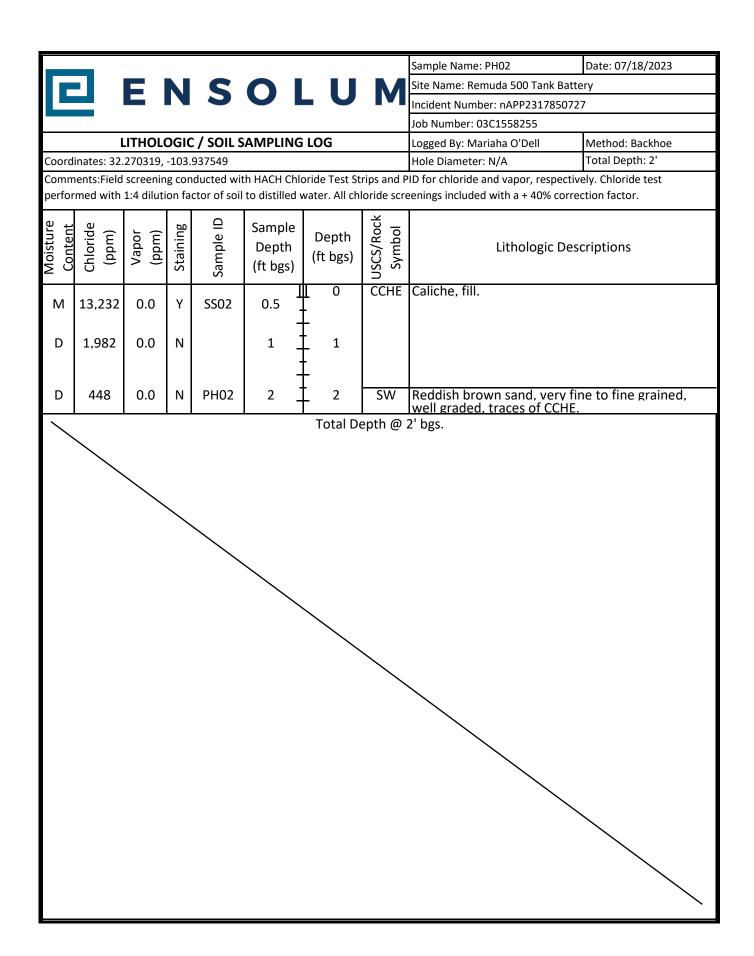
View: Southwest

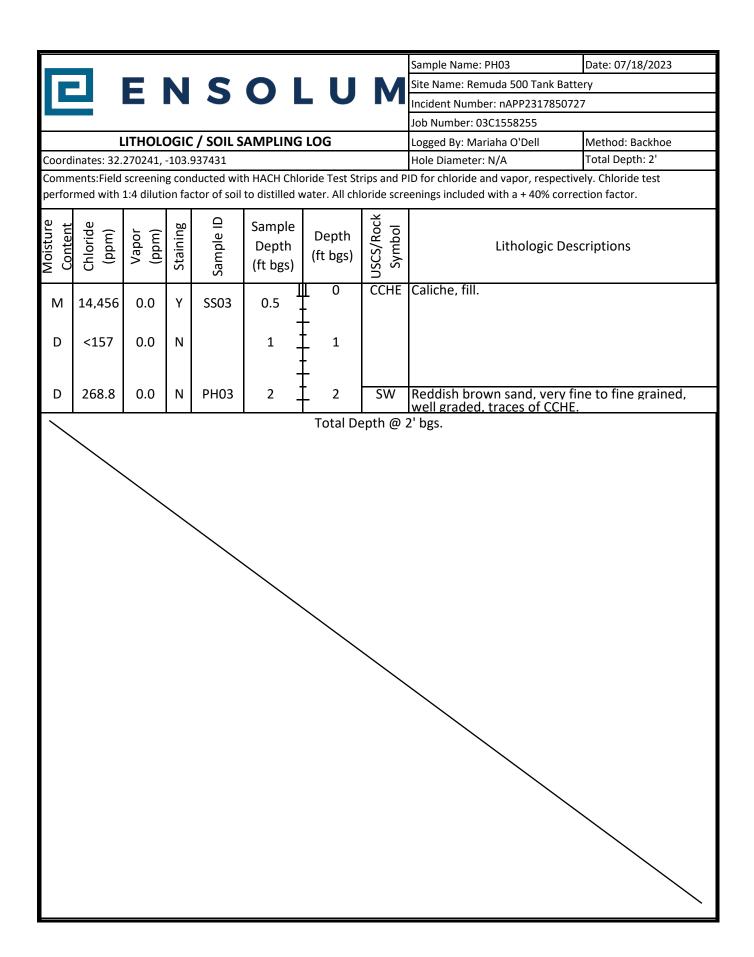


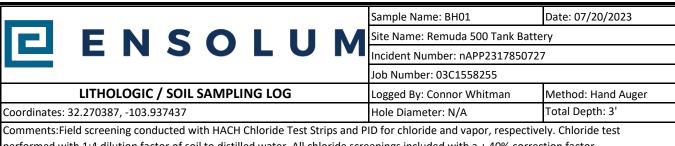
APPENDIX C

Lithologic Soil Sampling Logs





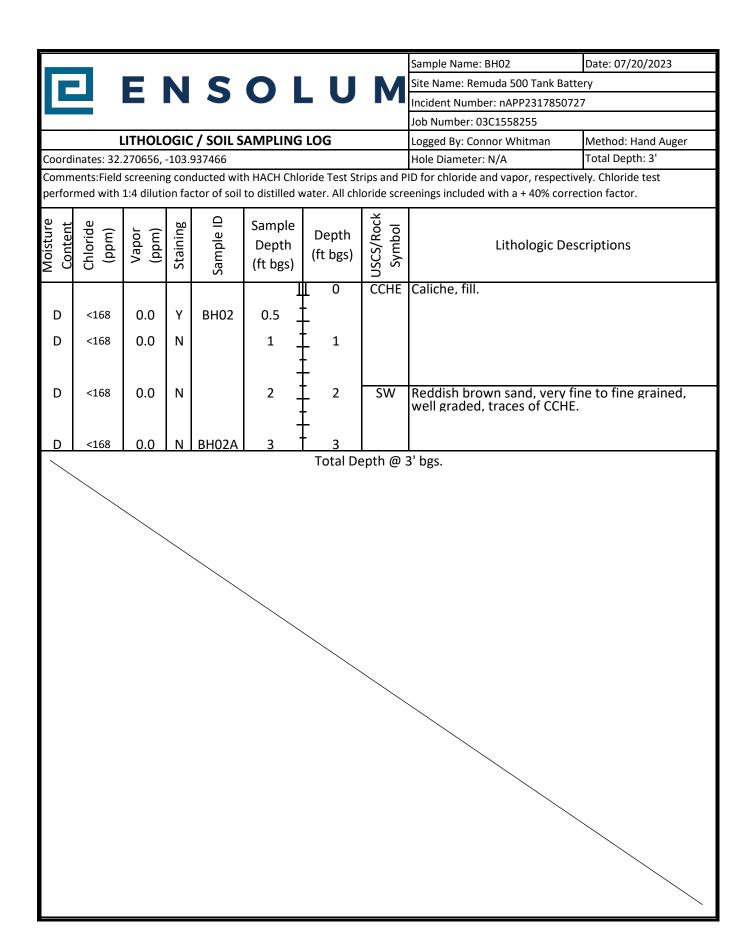


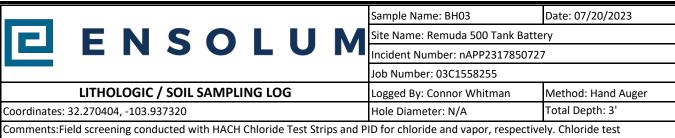


performed with 1:4 dilution factor of soil to distilled water. All chloride screenings included with a + 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					1	0	CCHE	Caliche, fill.
D	7,392	0.0	Υ	BH01	0.5	- -		
D	1,397	0.0	N		1 _	_ 1		
					- - -	- - -		
D	246	0.0	N		2 <u> </u>	_ 2 -	SW	Reddish brown sand, very fine to fine grained, well graded, traces of CCHE.
D	448	0.0	N	BH01A	3	- - 3		

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. All chloride screenings included with a + 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					1	0	CCHE	Caliche, fill.
D	<168	0.0	Υ	SS06	0.5	- -		
D	<168	0.0	N		1 _	_ 1		
					<u>-</u>	-		
D	<168	0.0	N		2	2	SW	Reddish brown sand, very fine to fine grained, well graded, traces of CCHE.
					_	L		
D	<168	0.0	Ν	BH03	3	3		

Total Depth @ 3' bgs.



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 7/25/2023 11:10:24 AM

JOB DESCRIPTION

Remuda 500 Tank Battery SDG NUMBER 03C1558255

JOB NUMBER

890-4927-1

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 7/25/2023 11:10:24 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 29

Project/Site: Remuda 500 Tank Battery

Client: Ensolum

Laboratory Job ID: 890-4927-1 SDG: 03C1558255

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QC Sample Results	14
QC Association Summary	18
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Certification Summary	24
Method Summary	25
Sample Summary	26
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Definitions/Glossary

Client: Ensolum Job ID: 890-4927-1 Project/Site: Remuda 500 Tank Battery

SDG: 03C1558255

Qualifiers

GC V	OA
Qualif	ier

*1	LCS/LCSD RPD 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.

Qualifier Description

GC Semi VOA

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

HPLC/IC

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

Glossary

DLC

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

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

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

Decision Level Concentration (Radiochemistry)

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Remuda 500 Tank Battery

Job ID: 890-4927-1

SDG: 03C1558255

Job ID: 890-4927-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4927-1

Receipt

The samples were received on 7/12/2023 8:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4927-1), SS02 (890-4927-2), SS03 (890-4927-3), SS04 (890-4927-4), SS05 (890-4927-5), SS06 (890-4927-6) and SS07 (890-4927-7).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57701 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-57701/64).

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-57655 and analytical batch 880-57701 recovered outside control limits for the following analytes: Benzene.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57701 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-57701/82) and (CCV 880-57701/95).

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-4927-1), SS02 (890-4927-2), SS03 (890-4927-3), SS04 (890-4927-4), SS05 (890-4927-5), SS06 (890-4927-6), SS07 (890-4927-7), (LCS 880-57655/1-A), (LCSD 880-57655/2-A), (MB 880-57655/5-A), (890-4934-A-41-B MS) and (890-4934-A-41-C MSD). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4934-A-41-D). 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 sample was outside control limits: (880-30795-A-64-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-4927-1), SS03 (890-4927-3), SS04 (890-4927-4), SS05 (890-4927-5), SS06 (890-4927-6) and SS07 (890-4927-7). 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 880-57953 and analytical batch 880-58292 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 880-57587 and analytical batch 880-57704 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.

Case Narrative

Client: Ensolum Job ID: 890-4927-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Job ID: 890-4927-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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Client: Ensolum Job ID: 890-4927-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: SS01

Date Collected: 07/07/23 09:50

Lab Sample ID: 890-4927-1

Matrix: Solid

Date Collected: 07/07/23 09:50
Date Received: 07/12/23 08:35

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		07/14/23 08:26	07/16/23 04:41	1
Toluene	< 0.00199	U	0.00199	mg/Kg		07/14/23 08:26	07/16/23 04:41	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		07/14/23 08:26	07/16/23 04:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/14/23 08:26	07/16/23 04:41	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		07/14/23 08:26	07/16/23 04:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/14/23 08:26	07/16/23 04:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	234	S1+	70 - 130			07/14/23 08:26	07/16/23 04:41	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130			07/14/23 08:26	07/16/23 04:41	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/17/23 14:47	1
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5					
			30.3	mg/Kg			07/25/23 11:30	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)		mg/Kg			07/25/23 11:30	1
Method: SW846 8015B NM - Dies Analyte	•	nics (DRO) Qualifier		mg/Kg Unit	D	Prepared	07/25/23 11:30 Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	(GC)		<u>D</u>	Prepared 07/18/23 13:38		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	(GC)	Unit	<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.5	Qualifier U	(GC) RL 50.5	<mark>Unit</mark> mg/Kg	<u>D</u>	07/18/23 13:38	Analyzed 07/25/23 02:23	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <50.5 <50.5	Qualifier U U U	(GC) RL 50.5	<mark>Unit</mark> mg/Kg mg/Kg	<u> </u>	07/18/23 13:38 07/18/23 13:38	Analyzed 07/25/23 02:23 07/25/23 02:23	Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.5 <50.5 <50.5	Qualifier U U U	(GC) RL 50.5 50.5 50.5	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	07/18/23 13:38 07/18/23 13:38 07/18/23 13:38	Analyzed 07/25/23 02:23 07/25/23 02:23 07/25/23 02:23	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U Qualifier	(GC) RL 50.5 50.5 50.5 Limits	<mark>Unit</mark> mg/Kg mg/Kg	<u> </u>	07/18/23 13:38 07/18/23 13:38 07/18/23 13:38 Prepared	Analyzed 07/25/23 02:23 07/25/23 02:23 07/25/23 02:23 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier S1-	RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130	<mark>Unit</mark> mg/Kg mg/Kg	<u> </u>	07/18/23 13:38 07/18/23 13:38 07/18/23 13:38 Prepared 07/18/23 13:38	Analyzed 07/25/23 02:23 07/25/23 02:23 07/25/23 02:23 Analyzed 07/25/23 02:23	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier S1-	RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	07/18/23 13:38 07/18/23 13:38 07/18/23 13:38 Prepared 07/18/23 13:38	Analyzed 07/25/23 02:23 07/25/23 02:23 07/25/23 02:23 Analyzed 07/25/23 02:23	Dil Fac

Client Sample ID: SS02 Lab Sample ID: 890-4927-2

Date Collected: 07/07/23 09:55 Date Received: 07/12/23 08:35

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *1	0.00198	mg/Kg		07/14/23 08:26	07/16/23 05:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/14/23 08:26	07/16/23 05:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/14/23 08:26	07/16/23 05:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/14/23 08:26	07/16/23 05:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/14/23 08:26	07/16/23 05:07	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/14/23 08:26	07/16/23 05:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	244	S1+	70 - 130			07/14/23 08:26	07/16/23 05:07	1

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Matrix: Solid

Sample Depth: 0.5

Job ID: 890-4927-1

Client: Ensolum Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: SS02 Lab Sample ID: 890-4927-2 Date Collected: 07/07/23 09:55

Matrix: Solid Date Received: 07/12/23 08:35

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	75	70 - 130	07/14/23 08:26	07/16/23 05:07	

Method: TAL SOP Total BTEX -	Total BTEX Calculation						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

1 -					•	•	
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/17/23 14:47	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			07/25/23 11:30	1

Method: SW846 8015B NM - Diese Analyte		nics (DRO) (C	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.3	U	50.3	mg/Kg		07/18/23 13:38	07/25/23 02:44	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.3	U	50.3	mg/Kg		07/18/23 13:38	07/25/23 02:44	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/18/23 13:38	07/25/23 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	07/18/23 13:38	07/25/23 02:44	1
o-Terphenyl	79		70 - 130	07/18/23 13:38	07/25/23 02:44	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorido	10000	99.0	ma/Ka			07/14/23 22:22	20

Client Sample ID: SS03 Lab Sample ID: 890-4927-3

Date Collected: 07/07/23 10:00 Matrix: Solid Date Received: 07/12/23 08:35

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		07/14/23 08:26	07/16/23 05:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/14/23 08:26	07/16/23 05:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/14/23 08:26	07/16/23 05:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/14/23 08:26	07/16/23 05:33	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		07/14/23 08:26	07/16/23 05:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/14/23 08:26	07/16/23 05:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	257	S1+	70 - 130			07/14/23 08:26	07/16/23 05:33	1
1,4-Difluorobenzene (Surr)	84		70 - 130			07/14/23 08:26	07/16/23 05:33	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			07/17/23 14:47	1

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (GC	;)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7 U	49.7	mg/Kg			07/25/23 11:30	1

Client: Ensolum Job ID: 890-4927-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: SS03

Date Received: 07/12/23 08:35

Lab Sample ID: 890-4927-3 Date Collected: 07/07/23 10:00

Matrix: Solid

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		07/18/23 13:38	07/25/23 03:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/18/23 13:38	07/25/23 03:04	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/18/23 13:38	07/25/23 03:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130			07/18/23 13:38	07/25/23 03:04	1
o-Terphenyl	77		70 - 130			07/18/23 13:38	07/25/23 03:04	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
		-			_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-4927-4 **Client Sample ID: SS04** Date Collected: 07/07/23 10:15 Matrix: Solid

Date Received: 07/12/23 08:35

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		07/14/23 08:26	07/16/23 05:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/16/23 05:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/16/23 05:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/23 08:26	07/16/23 05:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/16/23 05:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/23 08:26	07/16/23 05:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	344	S1+	70 - 130			07/14/23 08:26	07/16/23 05:58	1
1,4-Difluorobenzene (Surr)	96		70 - 130			07/14/23 08:26	07/16/23 05:58	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			07/17/23 14:47	1
-								
Method: SW846 8015 NM - Diese		, , ,	•					
Analyte	Result	Qualifier	GC)	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/25/23 11:30	Dil Fac
Analyte		Qualifier U	RL 49.9		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			07/25/23 11:30	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 07/18/23 13:38	07/25/23 11:30 Analyzed 07/25/23 03:24	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	07/25/23 11:30 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9 <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/18/23 13:38 07/18/23 13:38	07/25/23 11:30 Analyzed 07/25/23 03:24 07/25/23 03:24	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result 49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 07/18/23 13:38	07/25/23 11:30 Analyzed 07/25/23 03:24	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9 <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/18/23 13:38 07/18/23 13:38	07/25/23 11:30 Analyzed 07/25/23 03:24 07/25/23 03:24	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/18/23 13:38 07/18/23 13:38 07/18/23 13:38	07/25/23 11:30 Analyzed 07/25/23 03:24 07/25/23 03:24 07/25/23 03:24	1 Dil Fac 1 1

Client: Ensolum Job ID: 890-4927-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: SS04 Lab Sample ID: 890-4927-4

Date Collected: 07/07/23 10:15 Matrix: Solid Date Received: 07/12/23 08:35

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Ch	romatography - Solub	le					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1810	50.0	mg/Kg			07/14/23 22:32	10

Client Sample ID: SS05 Lab Sample ID: 890-4927-5

Date Collected: 07/07/23 10:20 Date Received: 07/12/23 08:35

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *1	0.00202	mg/Kg		07/14/23 08:26	07/16/23 06:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/14/23 08:26	07/16/23 06:24	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/14/23 08:26	07/16/23 06:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/14/23 08:26	07/16/23 06:24	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/14/23 08:26	07/16/23 06:24	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/14/23 08:26	07/16/23 06:24	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	261	S1+	70 - 130			07/14/23 08:26	07/16/23 06:24	
1,4-Difluorobenzene (Surr)	71		70 - 130			07/14/23 08:26	07/16/23 06:24	
Analyte	Result		RL	Unit		Prepared	Analyzed	
Total BTEX Method: SW846 8015 NM - Diese	<0.00403	ics (DRO) (0.00403 GC)	mg/Kg		<u> </u>	07/17/23 14:47	
Total BTEX Method: SW846 8015 NM - Diese	<0.00403	ics (DRO) (Qualifier	0.00403			Prepared		Dil Fa
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00403 el Range Organ Result <50.3 sel Range Orga Result	ics (DRO) (Qualifier Unics (DRO) Qualifier	0.00403 GC) RL 50.3 (GC) RL	mg/Kg	<u>D</u>	Prepared Prepared	07/17/23 14:47 Analyzed 07/25/23 11:30 Analyzed	Dil Fa
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00403 el Range Organ Result <p><50.3</p> sel Range Orga	ics (DRO) (Qualifier Unics (DRO) Qualifier	0.00403 GC) RL 50.3	mg/Kg Unit mg/Kg		Prepared	07/17/23 14:47 Analyzed 07/25/23 11:30	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	<0.00403 el Range Organ Result <50.3 sel Range Orga Result	ics (DRO) (Oualifier Unics (DRO) Qualifier Unics (DRO)	0.00403 GC) RL 50.3 (GC) RL	mg/Kg Unit mg/Kg Unit		Prepared Prepared	07/17/23 14:47 Analyzed 07/25/23 11:30 Analyzed	Dil Fa
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00403 el Range Organ Result <50.3 sel Range Orga Result <50.3	ics (DRO) (Outline DRO) Qualifier U nics (DRO) Qualifier U	0.00403 GC) RL 50.3 (GC) RL 50.3	mg/Kg Unit mg/Kg Unit mg/Kg		Prepared Prepared 07/18/23 13:38	07/17/23 14:47 Analyzed 07/25/23 11:30 Analyzed 07/25/23 03:45	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00403 el Range Organ Result <50.3 sel Range Orga Result <50.3 <50.3	ics (DRO) (Outline DRO) Qualifier U nics (DRO) Qualifier U	0.00403 RL 50.3 (GC) RL 50.3	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 07/18/23 13:38 07/18/23 13:38	Analyzed 07/25/23 11:30 Analyzed 07/25/23 03:45 07/25/23 03:45	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00403 el Range Organ Result <50.3 sel Range Orga Result <50.3 <50.3 <50.3	ics (DRO) (CQualifier U	0.00403 RL 50.3 (GC) RL 50.3 50.3 50.3	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/18/23 13:38 07/18/23 13:38	07/17/23 14:47 Analyzed 07/25/23 11:30 Analyzed 07/25/23 03:45 07/25/23 03:45	Dil Fac

Method: EPA 300.0 - Anions, Ion Ch	nromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	288	24.8	mg/Kg			07/14/23 22:37	5

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Matrix: Solid

Client: Ensolum Job ID: 890-4927-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: SS06 Lab Sample ID: 890-4927-6 Matrix: Solid

Date Collected: 07/07/23 10:25 Date Received: 07/12/23 08:35

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		07/14/23 08:26	07/16/23 06:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/16/23 06:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/16/23 06:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/14/23 08:26	07/16/23 06:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/16/23 06:50	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/14/23 08:26	07/16/23 06:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	217	S1+	70 - 130			07/14/23 08:26	07/16/23 06:50	1
1,4-Difluorobenzene (Surr)	92		70 - 130			07/14/23 08:26	07/16/23 06:50	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/17/23 14:47	1
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/25/23 11:30	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		07/18/23 13:38	07/25/23 04:05	1
D: 1D 0 : (0								
5 5 ,	<49.6	U	49.6	mg/Kg		07/18/23 13:38	07/25/23 04:05	1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.6 <49.6		49.6 49.6	mg/Kg mg/Kg		07/18/23 13:38 07/18/23 13:38	07/25/23 04:05 07/25/23 04:05	
C10-C28)		U						1 Dil Fac
C10-C28) OII Range Organics (Over C28-C36)	<49.6	U	49.6			07/18/23 13:38	07/25/23 04:05	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.6 <i>%Recovery</i>	U Qualifier	49.6			07/18/23 13:38 Prepared	07/25/23 04:05 Analyzed	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.6	Qualifier S1- S1-	49.6 Limits 70 - 130 70 - 130			07/18/23 13:38 Prepared 07/18/23 13:38	07/25/23 04:05 Analyzed 07/25/23 04:05	1
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.6 **Recovery 1 1 Chromatograp	Qualifier S1- S1-	49.6 Limits 70 - 130 70 - 130		D	07/18/23 13:38 Prepared 07/18/23 13:38	07/25/23 04:05 Analyzed 07/25/23 04:05	1 Dil Fac

Client Sample ID: SS07 Lab Sample ID: 890-4927-7

Date Collected: 07/07/23 10:30 Date Received: 07/12/23 08:35

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		07/14/23 08:26	07/16/23 07:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/16/23 07:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/16/23 07:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/14/23 08:26	07/16/23 07:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/16/23 07:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/14/23 08:26	07/16/23 07:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	255	S1+	70 - 130			07/14/23 08:26	07/16/23 07:17	

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Matrix: Solid

Client: Ensolum Job ID: 890-4927-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: SS07 Lab Sample ID: 890-4927-7

Date Collected: 07/07/23 10:30 Matrix: Solid
Date Received: 07/12/23 08:35

Sample Depth: 0.5

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130			07/14/23 08:26	07/16/23 07:17	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/17/23 14:47	1
Method: SW846 8015 NM - Diese	el Range Organi	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/25/23 11:30	1
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies				Unit		Dranarad	Anglyzad	Dil Eco
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/18/23 13:39	07/25/23 04:25	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		07/18/23 13:39	07/25/23 04:25	1
C10-C28)				99		017.10720 10.00	0.720720 020	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/18/23 13:39	07/25/23 04:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130			07/18/23 13:39	07/25/23 04:25	1
			70 - 130			07/18/23 13:39	07/25/23 04:25	

25.0

mg/Kg

476 F1

07/14/23 22:47

Surrogate Summary

Client: Ensolum Job ID: 890-4927-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4927-1	SS01	234 S1+	62 S1-	
890-4927-2	SS02	244 S1+	75	
890-4927-3	SS03	257 S1+	84	
890-4927-4	SS04	344 S1+	96	
890-4927-5	SS05	261 S1+	71	
890-4927-6	SS06	217 S1+	92	
890-4927-7	SS07	255 S1+	63 S1-	
890-4934-A-41-B MS	Matrix Spike	213 S1+	85	
890-4934-A-41-C MSD	Matrix Spike Duplicate	224 S1+	72	
LCS 880-57655/1-A	Lab Control Sample	197 S1+	72	
LCSD 880-57655/2-A	Lab Control Sample Dup	197 S1+	93	
MB 880-57617/5-A	Method Blank	94	78	
MB 880-57655/5-A	Method Blank	115	60 S1-	
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

		1001	ОТРН1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-30795-A-64-C MS	Matrix Spike	75	72	
880-30795-A-64-D MSD	Matrix Spike Duplicate	76	70	
890-4927-1	SS01	68 S1-	74	
890-4927-2	SS02	70	79	
890-4927-3	SS03	69 S1-	77	
890-4927-4	SS04	69 S1-	76	
890-4927-5	SS05	69 S1-	75	
890-4927-6	SS06	1 S1-	1 S1-	
890-4927-7	SS07	68 S1-	74	
LCS 880-57953/2-A	Lab Control Sample	84	85	
LCSD 880-57953/3-A	Lab Control Sample Dup	84	83	
MB 880-57953/1-A	Method Blank	82	93	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4927-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57617/5-A

Analysis Batch: 57701

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57617

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/23 13:36	07/15/23 08:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/23 13:36	07/15/23 08:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/23 13:36	07/15/23 08:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/13/23 13:36	07/15/23 08:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/23 13:36	07/15/23 08:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/13/23 13:36	07/15/23 08:05	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	07/13/23 13:36	07/15/23 08:05	1
1,4-Difluorobenzene (Surr)	78		70 - 130	07/13/23 13:36	07/15/23 08:05	1

Lab Sample ID: MB 880-57655/5-A

Client Sample ID: Method Blank

Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 57701	Prep Batch: 57655
MB MB	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/15/23 21:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/15/23 21:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/15/23 21:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/23 08:26	07/15/23 21:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/15/23 21:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/23 08:26	07/15/23 21:24	1
1								

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/14/23 08:26	07/15/23 21:24	1
1,4-Difluorobenzene (Surr)	60	S1-	70 - 130	07/14/23 08:26	07/15/23 21:24	1

Lab Sample ID: LCS 880-57655/1-A

Matrix: Solid

Analysis Batch: 57701

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 57655

-	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.07178		mg/Kg		72	70 - 130
Toluene	0.100	0.1171		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1226		mg/Kg		123	70 - 130
m-Xylene & p-Xylene	0.200	0.2238		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1089		mg/Kg		109	70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130
1,4-Difluorobenzene (Surr)	72		70 - 130

Lab Sample ID: LCSD 880-57655/2-A

Matrix: Solid

Analysis Batch: 57701

Client Sample ID:	: Lab Control Sample Dup)
	Dean Time, Tetal/N/	

Prep Type: Total/NA

Prep Batch: 57655

	Spike	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1222 *1	mg/Kg		122	70 - 130	52	35	

QC Sample Results

Client: Ensolum Job ID: 890-4927-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

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

Lab Sample ID: LCSD 880-57655/2-A **Matrix: Solid**

Analysis Batch: 57701

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 57655

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1164		mg/Kg		116	70 - 130	1	35
Ethylbenzene	0.100	0.1256		mg/Kg		126	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2298		mg/Kg		115	70 - 130	3	35
o-Xylene	0.100	0.1175		mg/Kg		117	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-4934-A-41-B MS Client Sample ID: Matrix Spike

Analysis Batch: 57701

Matrix: Solid Prep Type: Total/NA

Prep Batch: 57655

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U *1	0.0994	0.1164		mg/Kg		117	70 - 130	
Toluene	<0.00198	U	0.0994	0.1119		mg/Kg		113	70 - 130	
Ethylbenzene	<0.00198	U	0.0994	0.1144		mg/Kg		115	70 - 130	
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2096		mg/Kg		104	70 - 130	
o-Xylene	<0.00198	U	0.0994	0.1113		mg/Kg		111	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	213	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-4934-A-41-C MSD

Matrix: Solid

Analysis Batch: 57701

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 57655

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00198 U *1 0.100 0.09210 mg/Kg 92 70 - 130 23 35 Toluene <0.00198 0.100 0.09373 mg/Kg 94 70 - 130 18 35 Ethylbenzene <0.00198 U 0.100 0.09897 mg/Kg 99 70 - 130 14 35 <0.00396 U 0.200 0.1839 91 70 - 130 m-Xylene & p-Xylene mg/Kg 13 35 0.100 o-Xylene <0.00198 U 0.09715 mq/Kq 70 - 130 14 35

MSD MSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	224	S1+	70 - 130
1,4-Difluorobenzene (Surr)	72		70 - 130

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

Lab Sample ID: MB 880-57953/1-A

Matrix: Solid

Analysis Batch: 58292

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

Prep Batch: 57953

мв мв Result Qualifier Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 07/18/23 13:34 07/24/23 20:09

(GRO)-C6-C10

Client: Ensolum Job ID: 890-4927-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

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

Lab Sample ID: MB 880-57953/1-A	Client Sample ID: Method Blank
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 58292	Prep Batch: 57953

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/18/23 13:34	07/24/23 20:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/18/23 13:34	07/24/23 20:09	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			07/18/23 13:34	07/24/23 20:09	1
o-Terphenyl	93		70 - 130			07/18/23 13:34	07/24/23 20:09	1

Lab Sample ID: LCS 880-57 Matrix: Solid Analysis Batch: 58292	953/2-A						Client	Sample	ID: Lab Control Sa Prep Type: Tota Prep Batch: 5
•			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10			1000	834.0		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)			1000	877.2		mg/Kg		88	70 - 130
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	84		70 - 130						
o-Terphenyl	85		70 - 130						

Lab Sample ID: LCSD 880-57953/3-A				Clie	nt San	iple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid							Prep ⁻	Type: To	tal/NA
Analysis Batch: 58292							Prep	Batch:	57953
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	_ D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	825.8		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	875.4		mg/Kg		88	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	83		70 - 130

72

Matrix: Solid Analysis Batch: 58292	1-64-C IVIS							Client	Prep T	ype: Total/NA Batch: 57953
-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1	1010	680.4	F1	mg/Kg		64	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	792.9		mg/Kg		77	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	75		70 - 130							

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70 - 130

o-Terphenyl

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Client: Ensolum Job ID: 890-4927-1 Project/Site: Remuda 500 Tank Battery

SDG: 03C1558255

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

Lab Sample ID: 880-30795-A-64-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 58292 Prep Batch: 57953

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.6	U F1	1010	699.4	F1	mg/Kg		66	70 - 130	3	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.6	U	1010	789.2		mg/Kg		77	70 - 130	0	20
040 000)											

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	70		70 - 130

MR MR

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57587/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 57704

	1412	11.10						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/14/23 21:20	1

Lab Sample ID: LCS 880-57587/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 57704

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	252.6		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-57587/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 57704

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	253.5		ma/Ka		101	90 110		20	

Lab Sample ID: 890-4927-7 MS **Client Sample ID: SS07 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 57704

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	476	F1	1250	1875	F1	ma/Ka		112	90 110	

Lab Sample ID: 890-4927-7 MSD **Client Sample ID: SS07 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 57704

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	476	F1	1250	1872	F1	mg/Kg		112	90 - 110	0	20

QC Association Summary

Client: Ensolum

Project/Site: Remuda 500 Tank Battery

Job ID: 890-4927-1

SDG: 03C1558255

GC VOA

Prep Batch: 57617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57617/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 57655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4927-1	SS01	Total/NA	Solid	5035	
890-4927-2	SS02	Total/NA	Solid	5035	
890-4927-3	SS03	Total/NA	Solid	5035	
890-4927-4	SS04	Total/NA	Solid	5035	
890-4927-5	SS05	Total/NA	Solid	5035	
890-4927-6	SS06	Total/NA	Solid	5035	
890-4927-7	SS07	Total/NA	Solid	5035	
MB 880-57655/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57655/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57655/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4934-A-41-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4934-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 57701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4927-1	SS01	Total/NA	Solid	8021B	57655
890-4927-2	SS02	Total/NA	Solid	8021B	57655
890-4927-3	SS03	Total/NA	Solid	8021B	57655
890-4927-4	SS04	Total/NA	Solid	8021B	57655
890-4927-5	SS05	Total/NA	Solid	8021B	57655
890-4927-6	SS06	Total/NA	Solid	8021B	57655
890-4927-7	SS07	Total/NA	Solid	8021B	57655
MB 880-57617/5-A	Method Blank	Total/NA	Solid	8021B	57617
MB 880-57655/5-A	Method Blank	Total/NA	Solid	8021B	57655
LCS 880-57655/1-A	Lab Control Sample	Total/NA	Solid	8021B	57655
LCSD 880-57655/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57655
890-4934-A-41-B MS	Matrix Spike	Total/NA	Solid	8021B	57655
890-4934-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57655

Analysis Batch: 57866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4927-1	SS01	Total/NA	Solid	Total BTEX	- <u> </u>
890-4927-2	SS02	Total/NA	Solid	Total BTEX	
890-4927-3	SS03	Total/NA	Solid	Total BTEX	
890-4927-4	SS04	Total/NA	Solid	Total BTEX	
890-4927-5	SS05	Total/NA	Solid	Total BTEX	
890-4927-6	SS06	Total/NA	Solid	Total BTEX	
890-4927-7	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 57953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4927-1	SS01	Total/NA	Solid	8015NM Prep	
890-4927-2	SS02	Total/NA	Solid	8015NM Prep	
890-4927-3	SS03	Total/NA	Solid	8015NM Prep	
890-4927-4	SS04	Total/NA	Solid	8015NM Prep	

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Released to Imaging: 2/8/2024 2:10:25 PM

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QC Association Summary

Client: Ensolum Job ID: 890-4927-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

GC Semi VOA (Continued)

Prep Batch: 57953 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4927-5	SS05	Total/NA	Solid	8015NM Prep	
890-4927-6	SS06	Total/NA	Solid	8015NM Prep	
890-4927-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-57953/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57953/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57953/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30795-A-64-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-30795-A-64-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4927-1	SS01	Total/NA	Solid	8015B NM	57953
890-4927-2	SS02	Total/NA	Solid	8015B NM	57953
890-4927-3	SS03	Total/NA	Solid	8015B NM	57953
890-4927-4	SS04	Total/NA	Solid	8015B NM	57953
890-4927-5	SS05	Total/NA	Solid	8015B NM	57953
890-4927-6	SS06	Total/NA	Solid	8015B NM	57953
890-4927-7	SS07	Total/NA	Solid	8015B NM	57953
MB 880-57953/1-A	Method Blank	Total/NA	Solid	8015B NM	57953
LCS 880-57953/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57953
LCSD 880-57953/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57953
880-30795-A-64-C MS	Matrix Spike	Total/NA	Solid	8015B NM	57953
880-30795-A-64-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	57953

Analysis Batch: 58472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4927-1	SS01	Total/NA	Solid	8015 NM	
890-4927-2	SS02	Total/NA	Solid	8015 NM	
890-4927-3	SS03	Total/NA	Solid	8015 NM	
890-4927-4	SS04	Total/NA	Solid	8015 NM	
890-4927-5	SS05	Total/NA	Solid	8015 NM	
890-4927-6	SS06	Total/NA	Solid	8015 NM	
890-4927-7	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 57587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4927-1	SS01	Soluble	Solid	DI Leach	
890-4927-2	SS02	Soluble	Solid	DI Leach	
890-4927-3	SS03	Soluble	Solid	DI Leach	
890-4927-4	SS04	Soluble	Solid	DI Leach	
890-4927-5	SS05	Soluble	Solid	DI Leach	
890-4927-6	SS06	Soluble	Solid	DI Leach	
890-4927-7	SS07	Soluble	Solid	DI Leach	
MB 880-57587/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57587/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57587/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4927-7 MS	SS07	Soluble	Solid	DI Leach	
890-4927-7 MSD	SS07	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum Job ID: 890-4927-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

HPLC/IC

Analysis Batch: 57704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4927-1	SS01	Soluble	Solid	300.0	57587
890-4927-2	SS02	Soluble	Solid	300.0	57587
890-4927-3	SS03	Soluble	Solid	300.0	57587
890-4927-4	SS04	Soluble	Solid	300.0	57587
890-4927-5	SS05	Soluble	Solid	300.0	57587
890-4927-6	SS06	Soluble	Solid	300.0	57587
890-4927-7	SS07	Soluble	Solid	300.0	57587
MB 880-57587/1-A	Method Blank	Soluble	Solid	300.0	57587
LCS 880-57587/2-A	Lab Control Sample	Soluble	Solid	300.0	57587
LCSD 880-57587/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57587
890-4927-7 MS	SS07	Soluble	Solid	300.0	57587
890-4927-7 MSD	SS07	Soluble	Solid	300.0	57587

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Client: Ensolum

Project/Site: Remuda 500 Tank Battery

Job ID: 890-4927-1 SDG: 03C1558255

Lab Sample ID: 890-4927-1

Client Sample ID: SS01

Date Collected: 07/07/23 09:50 Date Received: 07/12/23 08:35

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57655	07/14/23 08:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 04:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57866	07/17/23 14:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58472	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	57953	07/18/23 13:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 02:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		20			57704	07/14/23 22:06	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4927-2

Date Collected: 07/07/23 09:55 Date Received: 07/12/23 08:35 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57655	07/14/23 08:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 05:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57866	07/17/23 14:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58472	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	57953	07/18/23 13:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 02:44	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		20			57704	07/14/23 22:22	CH	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-4927-3

Date Collected: 07/07/23 10:00 Date Received: 07/12/23 08:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57655	07/14/23 08:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 05:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57866	07/17/23 14:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58472	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	57953	07/18/23 13:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 03:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		20			57704	07/14/23 22:27	CH	FFT MID

Client Sample ID: SS04 Lab Sample ID: 890-4927-4 Date Collected: 07/07/23 10:15 **Matrix: Solid**

Date Received: 07/12/23 08:35

Γ	Datab	Datah		Dil	luitial	Final	Datab	Duamanad		
Prep Type	Batch	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
	Type	INTELLIOU	Kuii		Aillouill	Amount	- Mullibel	Ol Allalyzeu	Allalyst	
Total/NA	Prep	5035			5.00 g	5 mL	57655	07/14/23 08:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 05:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57866	07/17/23 14:47	AJ	EET MID

Eurofins Carlsbad

Matrix: Solid

Client: Ensolum

Project/Site: Remuda 500 Tank Battery

Job ID: 890-4927-1 SDG: 03C1558255

Client Sample ID: SS04

Date Collected: 07/07/23 10:15 Date Received: 07/12/23 08:35 Lab Sample ID: 890-4927-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58472	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	57953	07/18/23 13:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 03:24	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		10			57704	07/14/23 22:32	CH	EET MID

Lab Sample ID: 890-4927-5

Date Collected: 07/07/23 10:20

Client Sample ID: SS05

Date Received: 07/12/23 08:35

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57655	07/14/23 08:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 06:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57866	07/17/23 14:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58472	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	57953	07/18/23 13:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 03:45	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		5			57704	07/14/23 22:37	CH	EET MID

Client Sample ID: SS06

Date Collected: 07/07/23 10:25

Date Received: 07/12/23 08:35

Lab Sample ID: 890-4927-6

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57655	07/14/23 08:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 06:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57866	07/17/23 14:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58472	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	57953	07/18/23 13:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 04:05	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		1			57704	07/14/23 22:42	CH	EET MID

Client Sample ID: SS07

Date Collected: 07/07/23 10:30

Date Received: 07/12/23 08:35

Lab Sample ID: 890-4927-7

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57655	07/14/23 08:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 07:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57866	07/17/23 14:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58472	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	57953	07/18/23 13:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 04:25	SM	EET MID

Lab Chronicle

Client: Ensolum Job ID: 890-4927-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: SS07 Lab Sample ID: 890-4927-7

Date Collected: 07/07/23 10:30 Matrix: Solid Date Received: 07/12/23 08:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		5			57704	07/14/23 22:47	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4927-1 Project/Site: Remuda 500 Tank Battery

SDG: 03C1558255

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas		ELAP	T104704400-23-26	06-30-24	
The following analytes	are included in this report, bu	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for	
the agency does not of	fer certification.				
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte		
0 ,		Matrix Solid	Analyte Total TPH		

Method Summary

Client: Ensolum

Project/Site: Remuda 500 Tank Battery

Job ID: 890-4927-1 SDG: 03C1558255

Laboratory

EET MID

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Remuda 500 Tank Battery

Job ID: 890-4927-1

SDG: 03C1558255

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4927-1	SS01	Solid	07/07/23 09:50	07/12/23 08:35	0.5
890-4927-2	SS02	Solid	07/07/23 09:55	07/12/23 08:35	0.5
890-4927-3	SS03	Solid	07/07/23 10:00	07/12/23 08:35	0.5
890-4927-4	SS04	Solid	07/07/23 10:15	07/12/23 08:35	0.5
890-4927-5	SS05	Solid	07/07/23 10:20	07/12/23 08:35	0.5
890-4927-6	SS06	Solid	07/07/23 10:25	07/12/23 08:35	0.5
890-4927-7	SS07	Solid	07/07/23 10:30	07/12/23 08:35	0.5

Circle Met

Relinqu

eurofins **Environment Testing** Xenco

Chain of Custody

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

X	ished by: (Signature)	ure of this docur rofins Xenco will nco. A minimum	nod(s) and M	007/6040			70	2	505	202	503	205	1055	nple Identification	iners:	stody Seals:	tody Seals:	eceived Intact:	RECEIPT		lame:	ation:	nber:	ne:	303
	gnature)	ent and relinquishm be liable only for the charge of \$85.00 will	nod(s) and Metal(s) to be analyzed	200 0 / 6020									5	ation Matrix		Yes No N	Yes No NIA	Yes No	Temp Blank:		Connor Whitman		03C1558255	Remuda 500 Tank Battery	303-887-2946
1 00/	Receive	ent of samples cons cost of samples and be applied to each								,			7/7/23	Date Sampled	Corrected Temperature	N/A Temperature Reading:	/A Correction Factor:	Thermometer ID:	Yes No		hitman		8255	ank Battery	
2	Received by: (Signature)	titutes a valid purch I shall not assume project and a charg	TCLP / SPI	Mader vaco			1030	1025	1020	1015	1000	25.5	950	Time Sampled	emperature:	Reading:	actor:	3	Wet ice:	the lab, if rece	TAT starts the	Due Date:	✓ Routine	Turn /	Email: (
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	Relinquished by: (Signature)	ure 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 rofins 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 not. 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.	Co Cu Pb Mn Mo	Ca Cr Co Cii Ee Ph Mg Mn M												890-4927 Chain of Custody								ANALYSIS REQUEST	Delivera
	Received by: (Signature)	andard terms and condition unstances beyond the concest previously negocial unless previously negocial	TI U	Z																	_				Deliverables: EDD [
	Signature)	ons ntrol gotiated.	Hg: 1631 / 245.1 / 7470	Se Ag SiO₂ Na Sr Ti Sn U V Zn				AFE:		Cost Center:		10	Incident ID:	San	NaOH+As	Zn Acetat	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H ₃ PO ₄ : HP	H ₂ S0 ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Pres	ADaPT 🗆 0
	Date/Time		470 / 7471	Sn ∪ V Zn					1067601001	nter:		nAPP2317850727	D.	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	NaSO ₃	NABIS	0	NaOH: Na			DI Water: H ₂ O	Preservative Codes	Other:
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Total Conta Sample Cu Cooler Cus Samples R Sampler's

Project Loc

Project Nu

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Phone:

City, State ZIP Address

Carlsbad, NM 88220 3122 National Parks Hwy Project Manager:

Ben Belill

Company Name:

Ensolum

Company Name:

Bill to: (If different)

City, State ZIP: Address:

Carlsbad, NM 88220 3104 E. Green St. XTO Energy Garrett Green

State of Project:

Level IV

Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order Comments

www.xenco.com

Page

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4927-1

 SDG Number: 03C1558255
 3C1558255

List Source: Eurofins Carlsbad

Login Number: 4927 List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4927-1

SDG Number: 03C1558255

Login Number: 4927 **List Source: Eurofins Midland** List Number: 2 List Creation: 07/13/23 11:48 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 8/2/2023 9:07:01 AM

JOB DESCRIPTION

REMUDA 500 TANK BATTERY SDG NUMBER 03C1558255

JOB NUMBER

890-4963-1

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 8/2/2023 9:07:01 AM

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

Client: Ensolum Project/Site: REMUDA 500 TANK BATTERY Laboratory Job ID: 890-4963-1 SDG: 03C1558255

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Definitions/Glossary

Job ID: 890-4963-1 Client: Ensolum Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

%R

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

CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

Percent Recovery

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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

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) Most Probable Number MPN Method Quantitation Limit MQL

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-4963-1 Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

Job ID: 890-4963-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4963-1

Receipt

The samples were received on 7/18/2023 4:36 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 3.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-4963-1), PH02 (890-4963-2), PH03 (890-4963-3) and FS01 (890-4963-4).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-58416/33). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58416 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-58416/33).

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: PH03 (890-4963-3), FS01 (890-4963-4), (MB 880-58485/1-A) and (880-30743-A-1-G). 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

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

Matrix: Solid

Lab Sample ID: 890-4963-1

Job ID: 890-4963-1

Client: Ensolum Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

Client Sample ID: PH01

Date Collected: 07/18/23 10:05 Date Received: 07/18/23 16:36

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/25/23 11:03	07/25/23 19:28	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/25/23 11:03	07/25/23 19:28	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/25/23 11:03	07/25/23 19:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/25/23 11:03	07/25/23 19:28	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/25/23 11:03	07/25/23 19:28	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/25/23 11:03	07/25/23 19:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			07/25/23 11:03	07/25/23 19:28	1
1,4-Difluorobenzene (Surr)	110		70 - 130			07/25/23 11:03	07/25/23 19:28	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/26/23 09:30	1
Method: SW846 8015 NM - Diese	•		•		_			
	•	ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/02/23 09:46	Dil Fac
Analyte Total TPH	Result <49.8	Qualifier U	RL 49.8		D	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.8	Qualifier U	RL 49.8 (GC)	mg/Kg			08/02/23 09:46	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.8 sel Range Orga Result	Qualifier U unics (DRO) Qualifier	RL 49.8 (GC)	mg/Kg	<u>D</u>	Prepared	08/02/23 09:46 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.8	Qualifier U unics (DRO) Qualifier	RL 49.8 (GC)	mg/Kg			08/02/23 09:46	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 sel Range Orga Result	Qualifier U unics (DRO) Qualifier U	RL 49.8 (GC)	mg/Kg		Prepared	08/02/23 09:46 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8	Qualifier U unics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg		Prepared 07/25/23 14:17	08/02/23 09:46 Analyzed 08/01/23 18:07	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 sel Range Orga Result <49.8	Qualifier U unics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 07/25/23 14:17	08/02/23 09:46 Analyzed 08/01/23 18:07	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8	Qualifier U unics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg		Prepared 07/25/23 14:17 07/25/23 14:17 07/25/23 14:17 Prepared	08/02/23 09:46 Analyzed 08/01/23 18:07 08/01/23 18:07 08/01/23 18:07 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U unics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg Unit mg/Kg		Prepared 07/25/23 14:17 07/25/23 14:17 07/25/23 14:17 Prepared 07/25/23 14:17	08/02/23 09:46 Analyzed 08/01/23 18:07 08/01/23 18:07 Analyzed 08/01/23 18:07	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8	Qualifier U unics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg		Prepared 07/25/23 14:17 07/25/23 14:17 07/25/23 14:17 Prepared	08/02/23 09:46 Analyzed 08/01/23 18:07 08/01/23 18:07 08/01/23 18:07 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U Inics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg		Prepared 07/25/23 14:17 07/25/23 14:17 07/25/23 14:17 Prepared 07/25/23 14:17	08/02/23 09:46 Analyzed 08/01/23 18:07 08/01/23 18:07 Analyzed 08/01/23 18:07	1 Dil Fac 1 1 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8	Qualifier U Inics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg		Prepared 07/25/23 14:17 07/25/23 14:17 07/25/23 14:17 Prepared 07/25/23 14:17	08/02/23 09:46 Analyzed 08/01/23 18:07 08/01/23 18:07 Analyzed 08/01/23 18:07	1 Dil Fac 1 1 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane 0-Terphenyl Method: EPA 300.0 - Anions, Ion	Result <49.8	Qualifier U Inics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 07/25/23 14:17 07/25/23 14:17 07/25/23 14:17 Prepared 07/25/23 14:17 07/25/23 14:17	08/02/23 09:46 Analyzed 08/01/23 18:07 08/01/23 18:07 Analyzed 08/01/23 18:07 08/01/23 18:07	Dil Fa

Client Sample ID: PH02

Date Collected: 07/18/23 10:35 Date Received: 07/18/23 16:36

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/25/23 11:03	07/25/23 19:49	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/25/23 11:03	07/25/23 19:49	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/25/23 11:03	07/25/23 19:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/25/23 11:03	07/25/23 19:49	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/25/23 11:03	07/25/23 19:49	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/25/23 11:03	07/25/23 19:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			07/25/23 11:03	07/25/23 19:49	

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Lab Sample ID: 890-4963-2

Matrix: Solid

Client: Ensolum

Job ID: 890-4963-1

Project/Site: PEMI IDA 500 TANK BATTERY

SDC: 03C1558255

Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

Client Sample ID: PH02

Date Collected: 07/18/23 10:35

Matrix: Solid

Date Received: 07/18/23 16:36

Sample Depth: 2

	Method: SW846 8021B - Volatile O	rganic Compour	nds (GC) (Continued)			
	Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
	1,4-Difluorobenzene (Surr)	106	70 _ 130	07/25/23 11:03	07/25/23 19:49	1
1	_					

Method: TAL SOP Total BTEX - Tota	I BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/26/23 09:30	1

	Method: SW846 8015 NM - Diesel Ra	nge Organi	cs (DRO) (G	C)					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	<49.6	U	49.6	mg/Kg			08/02/23 09:46	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.6	U	49.6	mg/Kg		07/25/23 14:17	08/01/23 18:29	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.6	U	49.6	mg/Kg		07/25/23 14:17	08/01/23 18:29	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/25/23 14:17	08/01/23 18:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			07/25/23 14:17	08/01/23 18:29	1

- Carrogato	,	~~~~			,y=0a	
1-Chlorooctane	121		70 - 130	07/25/23 14:17	08/01/23 18:29	1
o-Terphenyl	103		70 - 130	07/25/23 14:17	08/01/23 18:29	1
Method: FPA 300.0 - Anions, Ion C	hromatogran	hv - Soluble				

Method: EPA 300.0 - Anions, Ion C	Chromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	407	4.99	mg/Kg			07/25/23 10:24	1

Client Sample ID: PH03

Date Collected: 07/18/23 10:55

Lab Sample ID: 890-4963-3

Matrix: Solid

Date Collected: 07/18/23 10:55 Date Received: 07/18/23 16:36

Sample Depth: 2

Analyte

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/25/23 11:03	07/25/23 20:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/25/23 11:03	07/25/23 20:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/25/23 11:03	07/25/23 20:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/25/23 11:03	07/25/23 20:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/25/23 11:03	07/25/23 20:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/25/23 11:03	07/25/23 20:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			07/25/23 11:03	07/25/23 20:09	1
1,4-Difluorobenzene (Surr)	112		70 - 130			07/25/23 11:03	07/25/23 20:09	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/26/23 09:30	1

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Analyzed

08/02/23 09:46

RL

49.6

Unit

mg/Kg

Prepared

Result Qualifier

<49.6 U

Dil Fac

Matrix: Solid

Lab Sample ID: 890-4963-3

Lab Sample ID: 890-4963-4

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-4963-1 Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

Client Sample ID: PH03

Date Collected: 07/18/23 10:55 Date Received: 07/18/23 16:36

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.6	U	49.6	mg/Kg		07/25/23 14:17	08/01/23 18:50	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.6	U	49.6	mg/Kg		07/25/23 14:17	08/01/23 18:50	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/25/23 14:17	08/01/23 18:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			07/25/23 14:17	08/01/23 18:50	1
o-Terphenyl	111		70 - 130			07/25/23 14:17	08/01/23 18:50	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solub	le					
	Booult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	112	Onit		ricparca	Allalyzou	Diriac

Client Sample ID: FS01

Date Collected: 07/18/23 15:30

Date Received: 07/18/23 16:36

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/25/23 11:03	07/25/23 20:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/25/23 11:03	07/25/23 20:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/25/23 11:03	07/25/23 20:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/25/23 11:03	07/25/23 20:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/25/23 11:03	07/25/23 20:30	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/25/23 11:03	07/25/23 20:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			07/25/23 11:03	07/25/23 20:30	1
1,4-Difluorobenzene (Surr)	111		70 - 130			07/25/23 11:03	07/25/23 20:30	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/26/23 09:30	1
Mothod: SW846 8015 NM - Dioce	l Pango Organ	ice (DPO) ((ec)					
Method: SW846 8015 NM - Diese			•	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	GC) RL 50.3		<u>D</u>	Prepared	Analyzed 08/02/23 09:46	Dil Fac
Analyte Total TPH	Result < 50.3	Qualifier U	RL 50.3		<u>D</u>	Prepared		
Analyte	Result <50.3	Qualifier U	RL 50.3		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <50.3	Qualifier U nics (DRO) Qualifier	RL 50.3	mg/Kg			08/02/23 09:46	1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.3 sel Range Orga	Qualifier U nics (DRO) Qualifier	RL 50.3 (GC)	mg/Kg		Prepared	08/02/23 09:46 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.3 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 50.3 (GC)	mg/Kg		Prepared	08/02/23 09:46 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.3 sel Range Orga Result <50.3	Qualifier U nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3	mg/Kg Unit mg/Kg		Prepared 07/25/23 14:17	08/02/23 09:46 Analyzed 08/01/23 19:11	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.3 sel Range Orga Result <50.3	Qualifier U nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3	mg/Kg Unit mg/Kg		Prepared 07/25/23 14:17	08/02/23 09:46 Analyzed 08/01/23 19:11	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.3	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.3 (GC) RL 50.3 50.3	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/25/23 14:17 07/25/23 14:17	08/02/23 09:46 Analyzed 08/01/23 19:11 08/01/23 19:11	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.3	Qualifier U nics (DRO) Qualifier U U	RL 50.3 (GC) RL 50.3 50.3 50.3	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/25/23 14:17 07/25/23 14:17	08/02/23 09:46 Analyzed 08/01/23 19:11 08/01/23 19:11	1 Dil Fac 1

Client Sample Results

Client: Ensolum Job ID: 890-4963-1 Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

Lab Sample ID: 890-4963-4 **Client Sample ID: FS01** Matrix: Solid

Date Collected: 07/18/23 15:30 Date Received: 07/18/23 16:36

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	265	4.97	mg/Kg			07/25/23 10:34	1

Surrogate Summary

Client: Ensolum Job ID: 890-4963-1 Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4963-1	PH01	102	110	
390-4963-2	PH02	106	106	
890-4963-3	PH03	106	112	
890-4963-4	FS01	110	111	
890-4986-A-1-D MS	Matrix Spike	107	99	
390-4986-A-1-E MSD	Matrix Spike Duplicate	101	105	
_CS 880-58465/1-A	Lab Control Sample	106	101	
LCSD 880-58465/2-A	Lab Control Sample Dup	113	101	
MB 880-58465/5-A	Method Blank	93	92	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA **Matrix: Solid**

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
-30743-A-1-H MS	Matrix Spike	122	94	
-30743-A-1-I MSD	Matrix Spike Duplicate	124	97	
-4963-1	PH01	126	107	
4963-2	PH02	121	103	
-4963-3	PH03	132 S1+	111	
4963-4	FS01	132 S1+	110	
880-58485/2-A	Lab Control Sample	114	111	
D 880-58485/3-A	Lab Control Sample Dup	113	111	
880-58485/1-A	Method Blank	179 S1+	155 S1+	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4963-1 Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58465/5-A

Lab Sample ID: LCS 880-58465/1-A

Matrix: Solid

Analysis Batch: 58416

Matrix: Solid Analysis Batch: 58416 Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 58465

	IND	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/25/23 11:03	07/25/23 13:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/25/23 11:03	07/25/23 13:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/25/23 11:03	07/25/23 13:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/25/23 11:03	07/25/23 13:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/25/23 11:03	07/25/23 13:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/25/23 11:03	07/25/23 13:12	1

MB MB

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93	70 - 130	07/25/23 11:03	07/25/23 13:12	1
1,4-Difluorobenzene (Surr)	92	70 - 130	07/25/23 11:03	07/25/23 13:12	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58465

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1076 mg/Kg 108 70 - 130 Toluene 0.100 0.1087 mg/Kg 109 70 - 130 0.100 0.09767 Ethylbenzene mg/Kg 98 70 - 130 0.200 0.1853 93 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09272 70 - 130 o-Xylene mg/Kg 93

LCS LCS

Surrogate	%Recovery Qualific	er Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 58416

Lab Sample ID: LCSD 880-58465/2-A

Prep Type: Total/NA Prep Batch: 58465

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1009		mg/Kg		101	70 - 130	6	35
Toluene	0.100	0.1030		mg/Kg		103	70 - 130	5	35
Ethylbenzene	0.100	0.09183		mg/Kg		92	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1736		mg/Kg		87	70 - 130	7	35
o-Xylene	0.100	0.08555		mg/Kg		86	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-4986-A-1-D MS

Matrix: Solid

Analysis Batch: 58416

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

Prep Batch: 58465

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0992	0.08916		mg/Kg		90	70 - 130	
Toluene	< 0.00199	U	0.0992	0.09439		mg/Kg		95	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-4963-1 SDG: 03C1558255 Project/Site: REMUDA 500 TANK BATTERY

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

Lab Sample ID: 890-4986-A-1-D MS

Matrix: Solid

Analysis Batch: 58416

Sam	ole Sample	Spike	MS	MS				%Rec	
Analyte Re:	ult Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene <0.00	99 U	0.0992	0.08636		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene <0.00	98 U	0.198	0.1660		mg/Kg		84	70 - 130	
o-Xylene <0.00	99 U	0.0992	0.08230		mg/Kg		83	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-4986-A-1-E MSD

Matrix: Solid

Analysis Batch: 58416

Client Sample	ID:	Matrix	Spike	Duplicate	
		B		- T-4-1/81A	

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 58465

Prep Type: Total/NA

Prep Batch: 58465

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0990	0.1231		mg/Kg		124	70 - 130	32	35
Toluene	< 0.00199	U	0.0990	0.1184		mg/Kg		120	70 - 130	23	35
Ethylbenzene	< 0.00199	U	0.0990	0.1037		mg/Kg		105	70 - 130	18	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1942		mg/Kg		98	70 - 130	16	35
o-Xylene	< 0.00199	U	0.0990	0.09638		mg/Kg		97	70 - 130	16	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-58485/1-A

Matrix: Solid

Analysis Batch: 58960

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

Prep Batch: 58485

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/25/23 14:17	08/01/23 07:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/25/23 14:17	08/01/23 07:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/25/23 14:17	08/01/23 07:24	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	179	S1+	70 - 130	07/25/23 14:17	08/01/23 07:24	1
o-Terphenyl	155	S1+	70 - 130	07/25/23 14:17	08/01/23 07:24	1

Lab Sample ID: LCS 880-58485/2-A

Matrix: Solid

Analysis Batch: 58960

Client Sample ID: Lab Control Sample	•
Prep Type: Total/NA	١.

Prep Batch: 58485

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1062		mg/Kg		106	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1082		mg/Kg		108	70 - 130
C10-C28)							

Analysis Batch: 58960

C10-C28)

o-Terphenyl

Prep Batch: 58485

2

70 - 130

Job ID: 890-4963-1 Client: Ensolum Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

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

Lab Sample ID: LCS 880-58485/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 114 70 - 130 o-Terphenyl 111 70 - 130

Lab Sample ID: LCSD 880-58485/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 58960 Prep Batch: 58485

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1024 102 70 - 13020 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1101 110

mg/Kg

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 113

111

MS MS

Lab Sample ID: 880-30743-A-1-H MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 58960 Prep Batch: 58485 Sample Sample MS MS Spike

Analyte Added Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.3 U 993 874.0 mg/Kg 83 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.3 U 993 1175 mg/Kg 115 70 - 130

C10-C28)

70 - 130

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 122 o-Terphenyl 94 70 - 130

Lab Sample ID: 880-30743-A-1-I MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 58960 Prep Batch: 58485 MSD MSD RPD Sample Sample Spike %Rec

	•	•	•								
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.3	U	993	873.6		mg/Kg		83	70 - 130	0	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.3	U	993	1199		mg/Kg		117	70 - 130	2	20
C10-C28)											

MSD MSD Qualifier %Recovery Surrogate Limits 1-Chlorooctane 124 70 - 130 97 70 - 130 o-Terphenyl

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Client: Ensolum Job ID: 890-4963-1 Project/Site: REMUDA 500 TANK BATTERY

SDG: 03C1558255

Prep Type: Soluble

Client Sample ID: PH01

Prep Type: Soluble

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58380/1-A

Matrix: Solid

Analysis Batch: 58435

MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 07/25/23 08:25

Lab Sample ID: LCS 880-58380/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 58435

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 227.0 mg/Kg 91 90 - 110

Lab Sample ID: LCSD 880-58380/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 58435

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 239.4 mg/Kg 90 - 110

Lab Sample ID: 890-4963-1 MS **Client Sample ID: PH01 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 58435

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 293 253 546.2 100 90 - 110 mg/Kg

Lab Sample ID: 890-4963-1 MSD

Matrix: Solid

Analysis Batch: 58435

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 253 293 545.1 mg/Kg 100 90 - 110 0 20

Client: Ensolum Job ID: 890-4963-1
Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

GC VOA

Analysis Batch: 58416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4963-1	PH01	Total/NA	Solid	8021B	58465
890-4963-2	PH02	Total/NA	Solid	8021B	58465
890-4963-3	PH03	Total/NA	Solid	8021B	58465
890-4963-4	FS01	Total/NA	Solid	8021B	58465
MB 880-58465/5-A	Method Blank	Total/NA	Solid	8021B	58465
LCS 880-58465/1-A	Lab Control Sample	Total/NA	Solid	8021B	58465
LCSD 880-58465/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58465
890-4986-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	58465
890-4986-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58465

Prep Batch: 58465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-4963-1	PH01	Total/NA	Solid	5035	
890-4963-2	PH02	Total/NA	Solid	5035	
890-4963-3	PH03	Total/NA	Solid	5035	
890-4963-4	FS01	Total/NA	Solid	5035	
MB 880-58465/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58465/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58465/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4986-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4986-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 58528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4963-1	PH01	Total/NA	Solid	Total BTEX	
890-4963-2	PH02	Total/NA	Solid	Total BTEX	
890-4963-3	PH03	Total/NA	Solid	Total BTEX	
890-4963-4	FS01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4963-1	PH01	Total/NA	Solid	8015NM Prep	
890-4963-2	PH02	Total/NA	Solid	8015NM Prep	
890-4963-3	PH03	Total/NA	Solid	8015NM Prep	
890-4963-4	FS01	Total/NA	Solid	8015NM Prep	
MB 880-58485/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58485/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58485/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30743-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-30743-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4963-1	PH01	Total/NA	Solid	8015B NM	58485
890-4963-2	PH02	Total/NA	Solid	8015B NM	58485
890-4963-3	PH03	Total/NA	Solid	8015B NM	58485
890-4963-4	FS01	Total/NA	Solid	8015B NM	58485
MB 880-58485/1-A	Method Blank	Total/NA	Solid	8015B NM	58485
LCS 880-58485/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58485

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Client: Ensolum Job ID: 890-4963-1 Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

GC Semi VOA (Continued)

Analysis Batch: 58960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-58485/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58485
880-30743-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	58485
880-30743-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	58485

Analysis Batch: 59091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4963-1	PH01	Total/NA	Solid	8015 NM	
890-4963-2	PH02	Total/NA	Solid	8015 NM	
890-4963-3	PH03	Total/NA	Solid	8015 NM	
890-4963-4	FS01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4963-1	PH01	Soluble	Solid	DI Leach	
890-4963-2	PH02	Soluble	Solid	DI Leach	
890-4963-3	PH03	Soluble	Solid	DI Leach	
890-4963-4	FS01	Soluble	Solid	DI Leach	
MB 880-58380/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58380/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58380/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4963-1 MS	PH01	Soluble	Solid	DI Leach	
890-4963-1 MSD	PH01	Soluble	Solid	DI Leach	

Analysis Batch: 58435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4963-1	PH01	Soluble	Solid	300.0	58380
890-4963-2	PH02	Soluble	Solid	300.0	58380
890-4963-3	PH03	Soluble	Solid	300.0	58380
890-4963-4	FS01	Soluble	Solid	300.0	58380
MB 880-58380/1-A	Method Blank	Soluble	Solid	300.0	58380
LCS 880-58380/2-A	Lab Control Sample	Soluble	Solid	300.0	58380
LCSD 880-58380/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58380
890-4963-1 MS	PH01	Soluble	Solid	300.0	58380
890-4963-1 MSD	PH01	Soluble	Solid	300.0	58380

Job ID: 890-4963-1

Client: Ensolum Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

Lab Sample ID: 890-4963-1

Date Collected: 07/18/23 10:05 Date Received: 07/18/23 16:36

Client Sample ID: PH01

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58465	07/25/23 11:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58416	07/25/23 19:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58528	07/26/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			59091	08/02/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58485	07/25/23 14:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58960	08/01/23 18:07	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58380	07/24/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1			58435	07/25/23 10:08	CH	EET MID

Client Sample ID: PH02 Lab Sample ID: 890-4963-2

Date Collected: 07/18/23 10:35

Matrix: Solid

Date Received: 07/18/23 16:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	58465	07/25/23 11:03	EL	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	58416	07/25/23 19:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58528	07/26/23 09:30	SM	EET MIC
Total/NA	Analysis	8015 NM		1			59091	08/02/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58485	07/25/23 14:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58960	08/01/23 18:29	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58380	07/24/23 14:45	KS	EET MIC
Soluble	Analysis	300.0		1			58435	07/25/23 10:24	CH	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-4963-3

Date Collected: 07/18/23 10:55 Date Received: 07/18/23 16:36 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	58465	07/25/23 11:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58416	07/25/23 20:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58528	07/26/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			59091	08/02/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58485	07/25/23 14:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58960	08/01/23 18:50	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58380	07/24/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1			58435	07/25/23 10:29	CH	EET MID

Client Sample ID: FS01 Lab Sample ID: 890-4963-4

Date Collected: 07/18/23 15:30 Date Received: 07/18/23 16:36

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58465	07/25/23 11:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58416	07/25/23 20:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58528	07/26/23 09:30	SM	EET MID

Lab Chronicle

Client: Ensolum Job ID: 890-4963-1
Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

Client Sample ID: FS01

Lab Sample ID: 890-4963-4

Matrix: Solid

Date Collected: 07/18/23 15:30 Date Received: 07/18/23 16:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			59091	08/02/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58485	07/25/23 14:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58960	08/01/23 19:11	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58380	07/24/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1			58435	07/25/23 10:34	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 Job ID: 890-4963-1
Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-23-26	06-30-24
The following analytes	are included in this report, bu	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.	,	, g ,	.,
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	,
9 ,		•	, , ,	

Method Summary

Client: Ensolum Job ID: 890-4963-1 Project/Site: REMUDA 500 TANK BATTERY SDG: 03C1558255

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 TANK BATTERY

Job ID: 890-4963-1

SDG: 03C1558255

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4963-1	PH01	Solid	07/18/23 10:05	07/18/23 16:36	2
890-4963-2	PH02	Solid	07/18/23 10:35	07/18/23 16:36	2
890-4963-3	PH03	Solid	07/18/23 10:55	07/18/23 16:36	2
890-4963-4	FS01	Solid	07/18/23 15:30	07/18/23 16:36	2

eurofins **

Xenco

Environment Testing

City, State ZIP: Address: Company Name:

> pen jamin Ensolvim, Luc

122 Nahona Parks Hww

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NM 88220

Reporting: Level II 🔲 Level III 🗎 PST/UST 📗 TRRP 📗 Level IV 📗

Company Name: Bill to: (if different)

XTO Energy

Program:

UST/PST ☐ PRP☐ Brownfields ☐

RRC □

Superfund

www.xenco.com

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Work Order Comments

State of Project:

Greene

13 14

Chain of Custody

•
31) 240-4200, Dallas, TX (214) 902-0300
704-5440, San Antonio, TX (210) 509-3334
FOE 3443 JANSON TY (806) 704-1706

Houston, TX (281) 240-4200, Dallas, 1X (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

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	rms and conditions beyond the control ess previously negotiated.	voite: 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 services. For expenses incurred by the client if such losses are due to circumstances beyond the control of services. For expenses incurred by the client if such losses are due to circumstances beyond the control of services in the services of the services of services in the services of the servi	rofins Xenco, its affiliates a enses incurred by the clien Eurofins Xenco, but not a	lent company to Eu or any losses or exp ample submitted to	d purchase order from c urne any responsibility f a charge of \$5 for each	es constitutes a valle les and shall not ass to each project and	t and relinquishment of samp lable only for the cost of samp arge of \$85.00 will be applied	e: Signature of this documer vice. Eurofins Xenco will be ofins Xenco. A minimum ch
Ag SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471	II K Se	A 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg I	b As Ba Be B C Sb As Ba Be Cd	xas 11 Al S 10 : 8RCRA	8RCRA 13PPM Texas 11 Al Sb As Ba Be TCLP/SPLP6010:8RCRA Sb As Ba Be	8RC lyzed	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 rcle Method(s) and
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Sample Comments			CY TP BT	Grab/ # of	Time Depth	Date Sampled :	ion Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC	-		H	ı		Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn	nain of Custody	890-4963 Chain		F	-	Temperature Reading:	Yes No N/A	Sample Custody Seals:
Na ₂ S ₂ O ₃ ; NaSO ₃			de			Correction Factor:	Yes No (N/A)	Cooler Custody Seals:
NaHSO 4: NABIS			lS.		EDDMAN :	Thermometer ID:	(Yes) No	Samples Received Intact:
H ₃ PO ₄ : HP				Yes	Wet Ice: ((Ye.	Yes No	Le mp Blank:	SAMPLE RECEIPT
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Cool: Cool MeOH: Me				Shep	Due Date: 5 d		32.2704,-103.93747	
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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4963-1 SDG Number: 03C1558255

List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Login Number: 4963

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: 890-4963-1 SDG Number: 03C1558255

List Source: Eurofins Midland

List Creation: 07/20/23 12:42 PM

Creator: Rodriguez, Leticia

Login Number: 4963

List Number: 2

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 8/2/2023 10:34:01 AM

JOB DESCRIPTION

Remuda 500 Tank Battery SDG NUMBER 03C1558255

JOB NUMBER

890-4969-1

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 8/2/2023 10:34:01 AM

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

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

Client: Ensolum
Project/Site: Remuda 500 Tank Battery

Laboratory Job ID: 890-4969-1
SDG: 03C1558255

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Definitions/Glossary

Job ID: 890-4969-1 Client: Ensolum Project/Site: Remuda 500 Tank Battery

SDG: 03C1558255

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** LCS and/or LCSD is outside acceptance limits, low biased.

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

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

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

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

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

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

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) Limit of Quantitation (DoD/DOE) LOQ

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

Method Detection Limit MDL ML Minimum Level (Dioxin) MPN Most Probable Number MOI Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Remuda 500 Tank Battery

Job ID: 890-4969-1

SDG: 03C1558255

Job ID: 890-4969-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4969-1

Receipt

The samples were received on 7/20/2023 9:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS04 (890-4969-1), FS05 (890-4969-2), SW01 (890-4969-3) and SW02 (890-4969-4).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-58463/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS05 (890-4969-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58417 recovered above the upper control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58417/20).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58417 recovered above the upper control limit for m-Xylene & p-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58417/64).

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 laboratory control sample (LCS) associated with preparation batch 880-58634 and analytical batch 880-58963 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.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW01 (890-4969-3) and SW02 (890-4969-4). 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 880-58217 and analytical batch 880-58468 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.

Matrix: Solid

Lab Sample ID: 890-4969-1

Client Sample Results

Client: Ensolum Job ID: 890-4969-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: FS04

Date Collected: 07/19/23 10:05 Date Received: 07/20/23 09:22

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/25/23 13:41	07/26/23 04:17	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/25/23 13:41	07/26/23 04:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/25/23 13:41	07/26/23 04:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/25/23 13:41	07/26/23 04:17	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/25/23 13:41	07/26/23 04:17	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/25/23 13:41	07/26/23 04:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			07/25/23 13:41	07/26/23 04:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130			07/25/23 13:41	07/26/23 04:17	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/26/23 09:46	1
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/27/23 08:32	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/25/23 15:32	07/27/23 07:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/25/23 15:32	07/27/23 07:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/25/23 15:32	07/27/23 07:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			07/25/23 15:32	07/27/23 07:07	1
o-Terphenyl	95		70 - 130			07/25/23 15:32	07/27/23 07:07	1
Method: EPA 300.0 - Anions, Ior	n Chromatograp	hy - Solubl	e					
•	• •	Qualifier						

Client Sample ID: FS05

Date Collected: 07/19/23 10:00 Date Received: 07/20/23 09:22

Date Received. 07/20/20 03:2

Sample Depth: 2.5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/25/23 13:41	07/26/23 04:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/25/23 13:41	07/26/23 04:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/25/23 13:41	07/26/23 04:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/25/23 13:41	07/26/23 04:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/25/23 13:41	07/26/23 04:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/25/23 13:41	07/26/23 04:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			07/25/23 13:41	07/26/23 04:37	1

24.9

457

mg/Kg

Eurofins Carlsbad

07/25/23 12:12

Lab Sample ID: 890-4969-2

2

3

5

10

12

13

Matrix: Solid

Client: Ensolum

Job ID: 890-4969-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: FS05 Lab Sample ID: 890-4969-2

Date Collected: 07/19/23 10:00 **Matrix: Solid** Date Received: 07/20/23 09:22

Sample Depth: 2.5

Method: SW846 8021B	Volatile Organic Compounds ((GC) (Continued)
Michiga, Offord Out 1D	Volunie Organie Compounds ((OO) (Oontiniaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	48 S1-	70 130	07/25/23 13:41	07/26/23 04:37	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	ma/Ka			07/26/23 09:46	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			07/27/23 08:32	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	<49.8	U	49.8	mg/Kg		07/25/23 15:32	07/27/23 07:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/25/23 15:32	07/27/23 07:27	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/25/23 15:32	07/27/23 07:27	1
Surrogato	%Pacayary	Qualifier	l imite			Propared	Analyzed	Dil Eac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84	70 - 130	07/25/23 15:32	07/27/23 07:27	1
o-Terphenyl	93	70 - 130	07/25/23 15:32	07/27/23 07:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	444	25.1	mg/Kg			07/25/23 12:17	5

Client Sample ID: SW01 Lab Sample ID: 890-4969-3

Date Collected: 07/19/23 13:25 Date Received: 07/20/23 09:22

Sample Depth: 0 - 3.5

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		07/25/23 13:41	07/26/23 04:58	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/25/23 13:41	07/26/23 04:58	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/25/23 13:41	07/26/23 04:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/25/23 13:41	07/26/23 04:58	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/25/23 13:41	07/26/23 04:58	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/25/23 13:41	07/26/23 04:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			07/25/23 13:41	07/26/23 04:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	07/25/23 13:41	07/26/23 04:58	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/25/23 13:41	07/26/23 04:58	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			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.9		50.4	mg/Kg			08/02/23 10:27	1

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-4969-1

Lab Sample ID: 890-4969-3

Client: Ensolum Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: SW01

Sample Depth: 0 - 3.5

Date Collected: 07/19/23 13:25	Matrix: Solid
Date Received: 07/20/23 09:22	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/27/23 08:51	08/01/23 10:46	1
Diesel Range Organics (Over C10-C28)	64.9	*_	50.4	mg/Kg		07/27/23 08:51	08/01/23 10:46	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/27/23 08:51	08/01/23 10:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			07/27/23 08:51	08/01/23 10:46	1
o-Terphenyl	136	S1+	70 - 130			07/27/23 08:51	08/01/23 10:46	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le					
	Decult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	112	Onit		i i cpai ca	Allalyzou	Diriac

Lab Sample ID: 890-4969-4 **Client Sample ID: SW02** Matrix: Solid

Date Collected: 07/19/23 10:15 Date Received: 07/20/23 09:22

Sample Depth: 0 - 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/25/23 13:41	07/26/23 05:19	
Toluene	<0.00202	U	0.00202	mg/Kg		07/25/23 13:41	07/26/23 05:19	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/25/23 13:41	07/26/23 05:19	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/25/23 13:41	07/26/23 05:19	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/25/23 13:41	07/26/23 05:19	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/25/23 13:41	07/26/23 05:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			07/25/23 13:41	07/26/23 05:19	1
1,4-Difluorobenzene (Surr)	75		70 - 130			07/25/23 13:41	07/26/23 05:19	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/26/23 09:46	1
Total BTEX Method: SW846 8015 NM - Diese				mg/Kg			07/26/23 09:46	1
- -	l Range Organ			mg/Kg Unit	D	Prepared	07/26/23 09:46 Analyzed	·
: Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <50.2	ics (DRO) (Gualifier	RL 50.2	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Range Organ Result <50.2 sel Range Organ	ics (DRO) (Gualifier	RL 50.2	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Range Organ Result <50.2 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 50.2	Unit mg/Kg			Analyzed 08/02/23 10:27	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Range Organ Result <50.2 sel Range Orga Result	ics (DRO) ((Qualifier U nics (DRO) Qualifier U	RL 50.2 (GC)	Unit mg/Kg		Prepared	Analyzed 08/02/23 10:27 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	Result sel Range Organ Result <50.2 sel Range Organ Result <50.2	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U *-	(GC) RL 50.2 (GC) RL 50.2	Unit mg/Kg Unit mg/Kg		Prepared 07/27/23 08:51	Analyzed 08/02/23 10:27 Analyzed 08/01/23 11:52	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <pre></pre> <pre> Sel Range Organ Result </pre> <pre></pre>	ics (DRO) (COMPANIES (DRO)) Qualifier U Qualifier U V*-	GC) RL 50.2 (GC) RL 50.2 50.2	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/27/23 08:51 07/27/23 08:51	Analyzed 08/02/23 10:27 Analyzed 08/01/23 11:52 08/01/23 11:52	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <pre></pre> <pre>sel Range Organ</pre> <pre>Result <50.2</pre> <pre>sel Rosult <50.2</pre> <pre><50.2</pre> <pre><50.2</pre>	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U *-	GC) RL 50.2 (GC) RL 50.2 50.2 50.2	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/27/23 08:51 07/27/23 08:51 07/27/23 08:51	Analyzed 08/02/23 10:27 Analyzed 08/01/23 11:52 08/01/23 11:52	Dil Fac

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8/2/2023

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-4969-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: SW02 Lab Sample ID: 890-4969-4

Date Collected: 07/19/23 10:15
Date Received: 07/20/23 09:22

Sample Depth: 0 - 2.5

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	380		25.2	mg/Kg			07/25/23 12:37	5

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Surrogate Summary

Client: Ensolum Job ID: 890-4969-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-4966-A-1-B MS	Matrix Spike	113	106	
90-4966-A-1-C MSD	Matrix Spike Duplicate	116	103	
90-4969-1	FS04	100	94	
90-4969-2	FS05	92	48 S1-	
90-4969-3	SW01	101	90	
90-4969-4	SW02	77	75	
CS 880-58480/1-A	Lab Control Sample	111	106	
CSD 880-58480/2-A	Lab Control Sample Dup	113	105	
IB 880-58463/5-A	Method Blank	67 S1-	96	
1B 880-58480/5-A	Method Blank	73	90	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
00-4969-1	FS04	85	95	
0-4969-2	FS05	84	93	
00-4969-3	SW01	122	136 S1+	
90-4969-3 MS	SW01	101	103	
90-4969-3 MSD	SW01	100	100	
0-4969-4	SW02	216 S1+	236 S1+	
0-4986-A-1-H MS	Matrix Spike	90	84	
0-4986-A-1-I MSD	Matrix Spike Duplicate	93	86	
CS 880-58493/2-A	Lab Control Sample	99	95	
CS 880-58634/2-A	Lab Control Sample	73	84	
CSD 880-58493/3-A	Lab Control Sample Dup	91	88	
CSD 880-58634/3-A	Lab Control Sample Dup	75	86	
B 880-58493/1-A	Method Blank	82	85	
B 880-58634/1-A	Method Blank	149 S1+	167 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4969-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58463/5-A

Matrix: Solid

Analysis Batch: 58417

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58463

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/25/23 10:46	07/25/23 12:49	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Prepared Analyzed Dil Fac 07/25/23 10:46 07/25/23 12:49 07/25/23 10:46 07/25/23 12:49

Lab Sample ID: MB 880-58480/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 58417

Prep Type: Total/NA

Prep Batch: 58480

MR MR Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 07/25/23 13:41 07/25/23 23:28 Toluene <0.00200 U 0.00200 mg/Kg 07/25/23 13:41 07/25/23 23:28 Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/25/23 13:41 07/25/23 23:28 <0.00400 U 0.00400 07/25/23 13:41 07/25/23 23:28 m-Xylene & p-Xylene mg/Kg <0.00200 U 07/25/23 23:28 o-Xylene 0.00200 mg/Kg 07/25/23 13:41 Xylenes, Total <0.00400 U 0.00400 mg/Kg 07/25/23 13:41 07/25/23 23:28

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73	70 - 130	07/25/23 13:41	07/25/23 23:28	1
1,4-Difluorobenzene (Surr)	90	70 - 130	07/25/23 13:41	07/25/23 23:28	1

Lab Sample ID: LCS 880-58480/1-A

Matrix: Solid

Analysis Batch: 58417

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58480

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1137		mg/Kg		114	70 - 130	
Toluene	0.100	0.09545		mg/Kg		95	70 - 130	
Ethylbenzene	0.100	0.1073		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	0.200	0.2224		mg/Kg		111	70 - 130	
o-Xylene	0.100	0.1105		mg/Kg		110	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 _ 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-58480/2-A

Matrix: Solid Analysis Batch: 58417 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 58480

7 mary oro Datom Co 111							Datoiii	
	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualific	er Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1123	mg/Kg		112	70 - 130	1	35

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QC Sample Results

Client: Ensolum Job ID: 890-4969-1 SDG: 03C1558255 Project/Site: Remuda 500 Tank Battery

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

Lab Sample ID: LCSD 880-58480/2-A

Matrix: Solid Analysis Batch: 58417 **Client Sample ID: Lab Control Sample Dup**

Prep Type: Total/NA Prep Batch: 58480

	Spike	LCSD	LCSD				%Rec		RPD
ılyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
lene	0.100	0.09721		mg/Kg		97	70 - 130	2	35
ylbenzene	0.100	0.1131		mg/Kg		113	70 - 130	5	35
(ylene & p-Xylene	0.200	0.2337		mg/Kg		117	70 - 130	5	35
ylene	0.100	0.1160		mg/Kg		116	70 - 130	5	35
	vilyte Jene ylbenzene (ylene & p-Xylene ylene	slyte Added gene 0.100 ylbenzene 0.100 Kylene & p-Xylene 0.200	slyte Added result glene 0.100 0.09721 ylbenzene 0.100 0.1131 Kylene & p-Xylene 0.200 0.2337	Added plane Added plane Result plane Qualifier uene 0.100 0.09721 kylbenzene 0.100 0.1131 kylene & p-Xylene 0.200 0.2337	Added plene Result plene Qualifier plene Unit plene ylbenzene 0.100 0.09721 mg/Kg kylene & p-Xylene 0.200 0.2337 mg/Kg	Added Result Qualifier Unit Dualifier Dualifier <	Added Result Qualifier Unit D %Rec Jene 0.100 0.09721 mg/Kg 97 Kylbenzene 0.100 0.1131 mg/Kg 113 Kylene & p-Xylene 0.200 0.2337 mg/Kg 117	Added plant Result qualifier Unit D %Rec plant Limits plant 0.100 0.09721 mg/Kg 97 70 - 130 ylbenzene 0.100 0.1131 mg/Kg 113 70 - 130 Kylene & p-Xylene 0.200 0.2337 mg/Kg 117 70 - 130	Added plant Result Qualifier Unit D %Rec witter Limits RPD glene 0.100 0.09721 mg/Kg 97 70 - 130 2 ylbenzene 0.100 0.1131 mg/Kg 113 70 - 130 5 Kylene & p-Xylene 0.200 0.2337 mg/Kg 117 70 - 130 5

LCSD LCSD

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 890-4966-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 58417

Prep Type: Total/NA

Prep Batch: 58480

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0994	0.09985		mg/Kg		100	70 - 130	
Toluene	<0.00200	U	0.0994	0.08411		mg/Kg		84	70 - 130	
Ethylbenzene	<0.00200	U	0.0994	0.09473		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1893		mg/Kg		95	70 - 130	
o-Xylene	<0.00200	U	0.0994	0.09260		mg/Kg		93	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: 890-4966-A-1-C MSD

Matrix: Solid

Analysis Batch: 58417

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 58480

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0998	0.09323		mg/Kg		93	70 - 130	7	35
Toluene	<0.00200	U	0.0998	0.07891		mg/Kg		79	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.0998	0.09128		mg/Kg		91	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1818		mg/Kg		91	70 - 130	4	35
o-Xylene	<0.00200	U	0.0998	0.09001		mg/Kg		90	70 - 130	3	35

MSD MSD

Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-58493/1-A

Matrix: Solid

Analysis Batch: 58515

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

Prep Batch: 58493

l		MB	МВ						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/25/23 15:29	07/26/23 09:29	1

(GRO)-C6-C10

Client: Ensolum Job ID: 890-4969-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

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

Lab Sample ID: MB 880-58493/1-A

Matrix: Solid

Analysis Batch: 58515

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 58493

	IND	IND						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/25/23 15:29	07/26/23 09:29	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/25/23 15:29	07/26/23 09:29	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	07/25/23 15:29	07/26/23 09:29	1
o-Terphenyl	85		70 - 130	07/25/23 15:29	07/26/23 09:29	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-58493/2-A Prep Type: Total/NA

Prep Batch: 58493

Analysis Batch: 58515 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 774.6 77 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 993.7 mg/Kg 99 70 - 130

C10-C28)

Matrix: Solid

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-58493/3-A

Matrix: Solid

Analysis Batch: 58515

Client Sample	ID: Lab	Control	Sample Du	р
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Prep Type: Total/NA

Prep Batch: 58493

	`	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Α	dded	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics		1000	758.7		mg/Kg		76	70 - 130	2	20
(GRO)-C6-C10										
Diesel Range Organics (Over		1000	929.8		mg/Kg		93	70 - 130	7	20
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 91 70 - 130 o-Terphenyl 88 70 - 130

Lab Sample ID: 890-4986-A-1-H MS

Matrix: Solid

Analysis Batch: 58515

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 58493

	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	1010	788.2		mg/Kg		75	70 - 130	
Diesel Range Organics (Over	<49.9	U	1010	901.2		mg/Kg		86	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	84		70 - 130

Client: Ensolum Job ID: 890-4969-1 Project/Site: Remuda 500 Tank Battery

SDG: 03C1558255

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

Lab Sample ID: 890-4986-A-1-I MSD

Matrix: Solid

Analysis Batch: 58515

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 58493

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	1010	805.6		mg/Kg		77	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	1010	926.7		mg/Kg		89	70 - 130	3	20
C10_C28\											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: MB 880-58634/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 58963

Prep Type: Total/NA

Prep Batch: 58634

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 07/27/23 08:51 08/01/23 07:24 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 07/27/23 08:51 08/01/23 07:24 OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/27/23 08:51 08/01/23 07:24

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130	07/27/23 08:51	08/01/23 07:24	1
o-Terphenyl	167	S1+	70 - 130	07/27/23 08:51	08/01/23 07:24	1

Lab Sample ID: LCS 880-58634/2-A

Matrix: Solid

Analysis Batch: 58963

Client	Sample	ID: I	Lab	Control	Sample
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Prep Type: Total/NA

Prep Batch: 58634

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	928.3		mg/Kg		93	70 - 130	 ,
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	668.8	*_	mg/Kg		67	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	73	70 - 130
o-Terphenyl	84	70 - 130

Lab Sample ID: LCSD 880-58634/3-A

Matrix: Solid

Analysis Batch: 58963

Prep Type: Total/NA Prep Batch: 58634

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	995.4		mg/Kg		100	70 - 130	7	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	723.1		mg/Kg		72	70 - 130	8	20	
C10-C28)										

Job ID: 890-4969-1 Client: Ensolum Project/Site: Remuda 500 Tank Battery

SDG: 03C1558255

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

ICED ICED

Lab Sample ID: LCSD 880-58634/3-A **Matrix: Solid**

Analysis Batch: 58963

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 58634

	LUSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 890-4969-3 MS

Matrix: Solid

Analysis Batch: 58963

Client Sample ID: SW01 Prep Type: Total/NA

Prep Batch: 58634

Sample	Sample	Spike	MS	MS				%Rec
Analyte Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics <50.4 (GRO)-C6-C10	U	996	918.5		mg/Kg		88	70 - 130
Diesel Range Organics (Over 64.9 C10-C28)	*_	996	858.8		mg/Kg		80	70 - 130

MS MS Surrogate %Recovery Qualifier Limits 101 70 - 130 1-Chlorooctane o-Terphenyl 103 70 - 130

Lab Sample ID: 890-4969-3 MSD Client Sample ID: SW01

Matrix: Solid

Analysis Batch: 58963

Prep Type: Total/NA Prep Batch: 58634

Sample Sample Spike MSD MSD Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics <50.4 U 996 813.1 mg/Kg 77 70 - 130 12 20 (GRO)-C6-C10 64.9 *-Diesel Range Organics (Over 996 840.0 mg/Kg 78 70 - 130 2 20 C10-C28)

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58217/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 58468

Allalysis Datcil. 30400								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/25/23 11:37	1

Lab Sample ID: LCS 880-58217/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 58468

	Spike	LCS LCS			%Rec
Analyte	Added	Result Qualif	er Unit	D %Rec	Limits
Chloride	250	242.2	mg/Kg	97	90 - 110

QC Sample Results

Client: Ensolum Job ID: 890-4969-1 Project/Site: Remuda 500 Tank Battery

SDG: 03C1558255

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-58217/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 58468

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	242.6		mg/Kg	_	97	90 - 110	0	20	

Lab Sample ID: 890-4968-A-21-B MS Client Sample ID: Matrix Spike **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 58468

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	44.1	F1	251	328.6	F1	mg/Kg		114	90 - 110	

Lab Sample ID: 890-4968-A-21-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 58468

Sample Sample MSD MSD %Rec RPD Spike Added Limit Analyte Result Qualifier Result Qualifier Unit Limits **RPD** Chloride 44.1 F1 251 328.9 F1 114 90 - 110 mg/Kg

Client: Ensolum Job ID: 890-4969-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

GC VOA

Analysis Batch: 58417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4969-1	FS04	Total/NA	Solid	8021B	58480
890-4969-2	FS05	Total/NA	Solid	8021B	58480
890-4969-3	SW01	Total/NA	Solid	8021B	58480
890-4969-4	SW02	Total/NA	Solid	8021B	58480
MB 880-58463/5-A	Method Blank	Total/NA	Solid	8021B	58463
MB 880-58480/5-A	Method Blank	Total/NA	Solid	8021B	58480
LCS 880-58480/1-A	Lab Control Sample	Total/NA	Solid	8021B	58480
LCSD 880-58480/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58480
890-4966-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	58480
890-4966-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58480

Prep Batch: 58463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58463/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 58480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4969-1	FS04	Total/NA	Solid	5035	
890-4969-2	FS05	Total/NA	Solid	5035	
890-4969-3	SW01	Total/NA	Solid	5035	
890-4969-4	SW02	Total/NA	Solid	5035	
MB 880-58480/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58480/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58480/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4966-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4966-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 58542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-4969-1	FS04	Total/NA	Solid	Total BTEX
890-4969-2	FS05	Total/NA	Solid	Total BTEX
890-4969-3	SW01	Total/NA	Solid	Total BTEX
890-4969-4	SW02	Total/NA	Solid	Total BTEX

GC Semi VOA

Prep Batch: 58493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4969-1	FS04	Total/NA	Solid	8015NM Prep	
890-4969-2	FS05	Total/NA	Solid	8015NM Prep	
MB 880-58493/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58493/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58493/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4986-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4986-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4969-1	FS04	Total/NA	Solid	8015B NM	58493
890-4969-2	FS05	Total/NA	Solid	8015B NM	58493
MB 880-58493/1-A	Method Blank	Total/NA	Solid	8015B NM	58493

Eurofins Carlsbad

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Client: Ensolum

Job ID: 890-4969-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

GC Semi VOA (Continued)

Analysis Batch: 58515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-58493/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58493
LCSD 880-58493/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58493
890-4986-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	58493
890-4986-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	58493

Analysis Batch: 58630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-4969-1	FS04	Total/NA	Solid	8015 NM
890-4969-2	FS05	Total/NA	Solid	8015 NM
890-4969-3	SW01	Total/NA	Solid	8015 NM
890-4969-4	SW02	Total/NA	Solid	8015 NM

Prep Batch: 58634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4969-3	SW01	Total/NA	Solid	8015NM Prep	
890-4969-4	SW02	Total/NA	Solid	8015NM Prep	
MB 880-58634/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58634/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58634/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4969-3 MS	SW01	Total/NA	Solid	8015NM Prep	
890-4969-3 MSD	SW01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4969-3	SW01	Total/NA	Solid	8015B NM	58634
890-4969-4	SW02	Total/NA	Solid	8015B NM	58634
MB 880-58634/1-A	Method Blank	Total/NA	Solid	8015B NM	58634
LCS 880-58634/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58634
LCSD 880-58634/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58634
890-4969-3 MS	SW01	Total/NA	Solid	8015B NM	58634
890-4969-3 MSD	SW01	Total/NA	Solid	8015B NM	58634

HPLC/IC

Leach Batch: 58217

Lab Cample ID	Client Commis ID	Drew Time	Maduly	Mathad	Duan Batak
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4969-1	FS04	Soluble	Solid	DI Leach	
890-4969-2	FS05	Soluble	Solid	DI Leach	
890-4969-3	SW01	Soluble	Solid	DI Leach	
890-4969-4	SW02	Soluble	Solid	DI Leach	
MB 880-58217/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58217/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58217/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4968-A-21-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4968-A-21-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 58468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4969-1	FS04	Soluble	Solid	300.0	58217
890-4969-2	FS05	Soluble	Solid	300.0	58217
890-4969-3	SW01	Soluble	Solid	300.0	58217

Eurofins Carlsbad

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Client: Ensolum Job ID: 890-4969-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

HPLC/IC (Continued)

Analysis Batch: 58468 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4969-4	SW02	Soluble	Solid	300.0	58217
MB 880-58217/1-A	Method Blank	Soluble	Solid	300.0	58217
LCS 880-58217/2-A	Lab Control Sample	Soluble	Solid	300.0	58217
LCSD 880-58217/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58217
890-4968-A-21-B MS	Matrix Spike	Soluble	Solid	300.0	58217
890-4968-A-21-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	58217

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4.0

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Client: Ensolum Job ID: 890-4969-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: FS04 Lab Sample ID: 890-4969-1

Date Collected: 07/19/23 10:05 Matrix: Solid Date Received: 07/20/23 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	58480	07/25/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/26/23 04:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58542	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58630	07/27/23 08:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58493	07/25/23 15:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58515	07/27/23 07:07	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58217	07/21/23 09:38	KS	EET MID
Soluble	Analysis	300.0		5			58468	07/25/23 12:12	CH	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-4969-2

Date Collected: 07/19/23 10:00 Matrix: Solid Date Received: 07/20/23 09:22

Batch Prep Type Type	Batch	Batch		Dil Factor	Initial Amount	Final	Batch	Prepared		
	Type	Method	Run			Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	58480	07/25/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/26/23 04:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58542	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58630	07/27/23 08:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58493	07/25/23 15:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58515	07/27/23 07:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58217	07/21/23 09:38	KS	EET MID
Soluble	Analysis	300.0		5			58468	07/25/23 12:17	CH	EET MID

Client Sample ID: SW01 Lab Sample ID: 890-4969-3 **Matrix: Solid**

Date Collected: 07/19/23 13:25 Date Received: 07/20/23 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	58480	07/25/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/26/23 04:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58542	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58630	08/02/23 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58634	07/27/23 08:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58963	08/01/23 10:46	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58217	07/21/23 09:38	KS	EET MID
Soluble	Analysis	300.0		5			58468	07/25/23 12:22	CH	EET MID

Client Sample ID: SW02 Lab Sample ID: 890-4969-4

Date Collected: 07/19/23 10:15 **Matrix: Solid** Date Received: 07/20/23 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58480	07/25/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/26/23 05:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58542	07/26/23 09:46	SM	EET MID

Lab Chronicle

Client: Ensolum Job ID: 890-4969-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: SW02

Lab Sample ID: 890-4969-4

Matrix: Solid

Date Collected: 07/19/23 10:15 Date Received: 07/20/23 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58630	08/02/23 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58634	07/27/23 08:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58963	08/01/23 11:52	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58217	07/21/23 09:38	KS	EET MID
Soluble	Analysis	300.0		5			58468	07/25/23 12:37	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 Job ID: 890-4969-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas		ELAP	06-30-24		
The following analytes	are included in this report hi	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytee for	
the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list his	ay ilicidde allaiytes for	
0 ,	• •	Matrix	Analyte	ay include analytes for	
the agency does not of	fer certification.	•	, , ,	ay include analytes for	

EET MID

EET MID

Method Summary

Client: Ensolum

Job ID: 890-4969-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

> **Method Description** Protocol Laboratory Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** TAL SOP EET MID Diesel Range Organics (DRO) (GC) SW846 **EET MID** Diesel Range Organics (DRO) (GC) SW846 **EET MID** Anions, Ion Chromatography EPA **EET MID EET MID** Closed System Purge and Trap SW846

> > SW846

ASTM

Protocol References:

Method

8021B

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Deionized Water Leaching 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 Tank Battery

Job ID: 890-4969-1

SDG: 030

3C1558255	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4969-1	FS04	Solid	07/19/23 10:05	07/20/23 09:22	2.5
890-4969-2	FS05	Solid	07/19/23 10:00	07/20/23 09:22	2.5
890-4969-3	SW01	Solid	07/19/23 13:25	07/20/23 09:22	0 - 3.5
890-4969-4	SW02	Solid	07/19/23 10:15	07/20/23 09:22	0 - 2.5

Circle Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM

TCLP / SPLP

service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibil ice: Signature of this document and relinquishment of samples constitutes a valid purchase order fro

urofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for ea

Relinquished by: (Signature)

Received by: (Signature)

E

26.0G Date/Time

928

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

13 14

eurofins Xenco **Environment Testing**

Chain of Custody

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

Work Order No:

		www.xenco.com Page of	
to: (if different)	Garrett Green	Work Order Comments	
npany Name:	XTO Energy	Program: UST/PST PRP Brownfields RRC Superfund	
dress:	3104 E. Greene St		
, State ZIP:	Carl60ad NM 88220	Reporting: Level II Level III PST/UST TRRP Level IV	
drrott.	Green @ ExxonMobi	Deliverables: EDD ADaPT Other:	
hur	ANALYSIS REQUEST	EST Preservative Codes	
Ď.	Pres.	None: NO DI Water: H ₂ O	
		Cool: Cool MeOH: Me	
received by		HCL: HC HNO 3: HN	
by 4:30pm		H ₂ SO ₄ :H ₂ NaOH:Na	
Yes No	eters	H ₃ PO ₄ : HP	
8	25		
Ó			7
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25.50		NaOH+Ascorbic Acid: SAPC	5 of
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Texas 11 Al 6010 : 8RCR	Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn se Ag Tl U Hg: 1631/245.1/7470/7471	024 2
n client company to	m client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	is and conditions	/8/2
ty for any losses or o	ty for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control ch sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	yond the control s previously negotiated.	: 2

SAMPLE RECEIPT

Temp Blank: Yes

Yes No

Wet Ice: the lab, if received TAT starts the day

No

Thermometer ID:

Sampler's Name: Project Location: Project Number: Project Name:

Mariaha O'Dell

32 2704-103 93747

Due Date:

Routine

Turn Aro

Remuda 500 Tank Battery

189 - 854 - 0852

Email:

City, State ZIP: Address: Company Name: Project Manager:

Fnsolum, LLC

National

Jarks H Wy

Ben

Bell

BH

Cooler Custody Seals: Samples Received Intact:

Yes No NIVA Yes No

Temperature Reading: Correction Factor:

Corrected Temperature:

Total Containers: Sample Custody Seals:

Sample Identification

Matrix

Sampled

10:05 Sampled

5.25

Date

Time

FSO5

F-504

SWO

MO2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4969-1 SDG Number: 03C1558255

Login Number: 4969 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Job Number: 890-4969-1 SDG Number: 03C1558255

List Source: Eurofins Midland
List Number: 2
List Creation: 07/21/23 10:58 AM

Creator: Rodriguez, Leticia

Client: Ensolum

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

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12

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<6mm (1/4").

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 8/8/2023 3:05:39 PM Revision 1

JOB DESCRIPTION

Remuda 500 Tank Battery SDG NUMBER 03C1558255

JOB NUMBER

890-4976-1

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 8/8/2023 3:05:39 PM Revision 1

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 41 8/8/2023 (Rev. 1)

Client: Ensolum
Project/Site: Remuda 500 Tank Battery

Laboratory Job ID: 890-4976-1
SDG: 03C1558255

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Definitions/Glossary

Client: Ensolum Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery

SDG: 03C1558255

Qualifiers

GC 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.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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

Duplicate Error Ratio (normalized absolute difference) **DER**

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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

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) Minimum Detectable Concentration (Radiochemistry) MDC

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-4976-1 SDG: 03C1558255 Project/Site: Remuda 500 Tank Battery

Job ID: 890-4976-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4976-1

REVISION

The report being provided is a revision of the original report sent on 8/7/2023. The report (revision 1) is being revised due to Per client email, requesting chloride re run.

Receipt

The samples were received on 7/21/2023 9:13 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 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS03 (890-4976-1), FS06 (890-4976-2), FS07 (890-4976-3), FS08 (890-4976-4), FS02 (890-4976-5), FS11 (890-4976-6), FS12 (890-4976-7), BH01 (890-4976-8), BH01A (890-4976-9), BH02 (890-4976-10), BH02A (890-4976-11), FS10 (890-4976-12), SW03 (890-4976-13), FS09 (890-4976-14), SW04 (890-4976-15) and BH03 (890-4976-16).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-58735 and analytical batch 880-58782 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58782 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-58782/33).

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS03 (890-4976-1), FS06 (890-4976-2), FS07 (890-4976-3), FS08 (890-4976-4), FS02 (890-4976-5), FS11 (890-4976-6), FS12 (890-4976-7), BH01 (890-4976-8), BH01A (890-4976-9), BH02 (890-4976-10), BH02A (890-4976-11), FS10 (890-4976-12), SW03 (890-4976-13), FS09 (890-4976-14), SW04 (890-4976-15), BH03 (890-4976-16), (LCSD 880-58735/2-A), (890-4976-A-1-B MS) and (890-4976-A-1-C MSD). 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

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.

Matrix: Solid

Lab Sample ID: 890-4976-1

08/03/23 09:25 08/05/23 00:53

Job ID: 890-4976-1

Client: Ensolum Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: FS03

Date Collected: 07/20/23 11:25 Date Received: 07/21/23 09:13

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/29/23 19:17	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/29/23 19:17	1
Ethylbenzene	<0.00202	U F1	0.00202	mg/Kg		07/28/23 13:24	07/29/23 19:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/28/23 13:24	07/29/23 19:17	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/29/23 19:17	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/28/23 13:24	07/29/23 19:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			07/28/23 13:24	07/29/23 19:17	1
1,4-Difluorobenzene (Surr)	87		70 - 130			07/28/23 13:24	07/29/23 19:17	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/31/23 14:05	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			08/07/23 09:40	1	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		08/03/23 09:25	08/05/23 00:53	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		08/03/23 09:25	08/05/23 00:53	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		08/03/23 09:25	08/05/23 00:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			08/03/23 09:25	08/05/23 00:53	

Method: EPA 300.0 - Anions, le	on Chromatograph	ny - Soluble					
Analyte	Result Qualifie	r RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	426	25.0	mg/Kg			07/25/23 15:15	5

70 - 130

100

Client Sample ID: FS06 Lab Sample ID: 890-4976-2 Date Collected: 07/20/23 11:30 **Matrix: Solid**

Date Received: 07/21/23 09:13

Sample Depth: 2.5

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/29/23 19:42	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/29/23 19:42	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/29/23 19:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/28/23 13:24	07/29/23 19:42	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/29/23 19:42	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/28/23 13:24	07/29/23 19:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130			07/28/23 13:24	07/29/23 19:42	1

Job ID: 890-4976-1

Client: Ensolum Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: FS06 Lab Sample ID: 890-4976-2

Date Collected: 07/20/23 11:30 **Matrix: Solid** Date Received: 07/21/23 09:13

Sample Depth: 2.5

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	74	70 - 130	$07/28/23 \ 13.24 \ 07/29/23 \ 19.42$	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			07/31/23 14:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6 I	U	49.6	mg/Kg			08/07/23 09:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		08/03/23 09:25	08/05/23 01:57	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		08/03/23 09:25	08/05/23 01:57	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		08/03/23 09:25	08/05/23 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/03/23 09:25	08/05/23 01:57	1
o-Terphenyl	110		70 - 130	08/03/23 09:25	08/05/23 01:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	448		24.8	mg/Kg			07/25/23 15:30	5

Client Sample ID: FS07 Lab Sample ID: 890-4976-3 **Matrix: Solid**

Date Collected: 07/20/23 11:35 Date Received: 07/21/23 09:13

Sample Depth: 2.5

Method: SW846 8021B - Volatile Organic Compounds (Method:	: SW846 8021B	- Volatile Organic	Compounds (GC)
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Michiga. Office out 15 - 10	nathe Organie	Compount	45 (55)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 20:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 20:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 20:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/28/23 13:24	07/29/23 20:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 20:07	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/28/23 13:24	07/29/23 20:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130			07/28/23 13:24	07/29/23 20:07	1
1,4-Difluorobenzene (Surr)	101		70 - 130			07/28/23 13:24	07/29/23 20:07	1

Mothod: TAL	COD Total RTEY	 Total BTFX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/31/23 14:05	1

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

Analyte	Result Qualifier	r RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7 U	49.7	mg/Kg			08/07/23 09:40	1

Client: Ensolum Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: FS07 Lab Sample ID: 890-4976-3

Date Collected: 07/20/23 11:35 **Matrix: Solid**

Date Received: 07/21/23 09:13

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		08/03/23 09:25	08/05/23 02:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		08/03/23 09:25	08/05/23 02:18	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		08/03/23 09:25	08/05/23 02:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			08/03/23 09:25	08/05/23 02:18	1
o-Terphenyl	107		70 - 130			08/03/23 09:25	08/05/23 02:18	1
Method: EPA 300.0 - Anions,	Ion Chromat	tography -	Soluble					
•		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	176	Oint	_	ricparca	Allulyzou	Dii i uo

Client Sample ID: FS08 Lab Sample ID: 890-4976-4 **Matrix: Solid**

Date Collected: 07/20/23 11:40

Date Received: 07/21/23 09:13

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/28/23 13:24	07/29/23 20:33	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/28/23 13:24	07/29/23 20:33	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/28/23 13:24	07/29/23 20:33	1
m-Xylene & p-Xylene	< 0.00396	U	0.00396	mg/Kg		07/28/23 13:24	07/29/23 20:33	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/28/23 13:24	07/29/23 20:33	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/28/23 13:24	07/29/23 20:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130			07/28/23 13:24	07/29/23 20:33	1
1,4-Difluorobenzene (Surr)	103		70 - 130			07/28/23 13:24	07/29/23 20:33	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/31/23 14:05	1
Method: SW846 8015 NM - Die	esel Range	Organics (DRO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			08/07/23 09:40	1
Method: SW846 8015B NM - D	Diesel Range	organics	(DRO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		08/03/23 09:25	08/05/23 02:39	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		08/03/23 09:25	08/05/23 02:39	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		08/03/23 09:25	08/05/23 02:39	1
on range organice (ever eze ece)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
,	%Recovery	Qualifier	<u>Limits</u> 70 - 130			Prepared 08/03/23 09:25	Analyzed 08/05/23 02:39	Dil Fac

Date Received: 07/21/23 09:13

Client Sample Results

Client: Ensolum Job ID: 890-4976-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: FS08 Lab Samp Date Collected: 07/20/23 11:40

Lab Sample ID: 890-4976-4

Matrix: Solid

Sample Depth: 2.5

Method: EPA 300.0 - Anions, Id	on Chromat	ography - S	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	562		25.0	mg/Kg			07/25/23 15:40	5

Client Sample ID: FS02 Lab Sample ID: 890-4976-5

Date Collected: 07/20/23 12:05

Matrix: Solid

Date Received: 07/21/23 09:13

Sample Depth: 3.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/28/23 13:24	07/29/23 20:58	
Toluene	< 0.00201	U	0.00201	mg/Kg		07/28/23 13:24	07/29/23 20:58	
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		07/28/23 13:24	07/29/23 20:58	
m-Xylene & p-Xylene	< 0.00402	U	0.00402	mg/Kg		07/28/23 13:24	07/29/23 20:58	
o-Xylene	< 0.00201	U	0.00201	mg/Kg		07/28/23 13:24	07/29/23 20:58	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/28/23 13:24	07/29/23 20:58	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130			07/28/23 13:24	07/29/23 20:58	
1,4-Difluorobenzene (Surr)	98		70 - 130			07/28/23 13:24	07/29/23 20:58	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/31/23 14:05	
Method: SW846 8015 NM - Die Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
	_	Qualifier	, , ,	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/07/23 09:40	Dil Fa
Analyte Total TPH	Result <50.5	Qualifier U	RL 50.5		<u>D</u>	Prepared		Dil Fa
Analyte	Result <50.5	Qualifier U	RL 50.5		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - DANALYTE Gasoline Range Organics	Result <50.5	Qualifier U Organics Qualifier	RL 50.5 (DRO) (GC)	mg/Kg			08/07/23 09:40	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - E	Result <50.5 Diesel Range Result	Qualifier U Organics Qualifier U	70.5 (DRO) (GC)	mg/Kg Unit		Prepared 08/03/23 09:25	08/07/23 09:40 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - DANALYTE Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.5 Diesel Range Result <50.5	Qualifier U Organics Qualifier U	RL	mg/Kg Unit mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 03:01	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - December 2015 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.5	Qualifier U Organics Qualifier U U	RL 50.5 (DRO) (GC) RL 50.5 50.5	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 03:01 08/05/23 03:01	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - December 2015 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.5	Qualifier U Organics Qualifier U U	RL 50.5 (DRO) (GC) RL 50.5 50.5 50.5	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 03:01 08/05/23 03:01 08/05/23 03:01 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.5	Qualifier U Organics Qualifier U U	RL 50.5 (DRO) (GC) RL 50.5 50.5 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25 08/03/23 09:25 Prepared 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 03:01 08/05/23 03:01 08/05/23 03:01 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.5	Qualifier U Organics Qualifier U U U Qualifier	RL 50.5 (DRO) (GC) RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25 08/03/23 09:25 Prepared 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 03:01 08/05/23 03:01 08/05/23 03:01 Analyzed 08/05/23 03:01	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Organics Qualifier U U U Qualifier	RL 50.5 (DRO) (GC) RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25 08/03/23 09:25 Prepared 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 03:01 08/05/23 03:01 08/05/23 03:01 Analyzed 08/05/23 03:01	Dil Fa

Client: Ensolum Job ID: 890-4976-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: FS11

Date Collected: 07/20/23 12:20 Date Received: 07/21/23 09:13

Sample Depth: 2.5

Lab Sample ID: 890-4976-6

08/03/23 09:25 08/05/23 03:22

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/28/23 13:24	07/29/23 21:23	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/28/23 13:24	07/29/23 21:23	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/28/23 13:24	07/29/23 21:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/28/23 13:24	07/29/23 21:23	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		07/28/23 13:24	07/29/23 21:23	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/28/23 13:24	07/29/23 21:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			07/28/23 13:24	07/29/23 21:23	1
1,4-Difluorobenzene (Surr)	87		70 - 130			07/28/23 13:24	07/29/23 21:23	1

Method: TAL SOP Total BTEX - Total BTEX CalculationAnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacTotal BTEX<0.00402</td>U0.00402mg/Kg07/31/23 14:051

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)AnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacTotal TPH<50.2</td>U50.2mg/Kg08/07/23 09:401

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac <50.2 U Gasoline Range Organics 50.2 08/03/23 09:25 08/05/23 03:22 mg/Kg (GRO)-C6-C10 08/03/23 09:25 08/05/23 03:22 Diesel Range Organics (Over <50.2 U 50.2 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.2 U 50.2 08/03/23 09:25 08/05/23 03:22 mg/Kg %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 70 - 130 08/03/23 09:25 08/05/23 03:22 89

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResult QualifierRL of LorideUnit mg/KgD of LoridePrepared of Manalyzed of Manalyzed of Mg/KgD of Manalyzed of Mg/KgD of Manalyzed of Mg/KgD of Mg/Kg<t

70 - 130

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Client Sample ID: FS12 Lab Sample ID: 890-4976-7
Date Collected: 07/20/23 12:25

Matrix: Solid

Date Received: 07/21/23 09:13

Sample Depth: 2.5

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/28/23 13:24	07/29/23 21:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/28/23 13:24	07/29/23 21:48	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		07/28/23 13:24	07/29/23 21:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/28/23 13:24	07/29/23 21:48	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		07/28/23 13:24	07/29/23 21:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/28/23 13:24	07/29/23 21:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130			07/28/23 13:24	07/29/23 21:48	1

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Client: Ensolum Job ID: 890-4976-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: FS12 Lab Sample ID: 890-4976-7

Sample Depth: 2.5

) (Continued)

Surrogate	%Recovery (Qualifier	Limits	Prepared Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	115		70 - 130	07/28/23 13:24 07/29/23 21:48	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/31/23 14:05	1

ı	Mathadi CIMO AC OO AE NIME Dia	cal Dange Organica (DDO) (CC)	
ı	Method: SW846 8015 NM - Die:	sei Rande Ordanics (DRO) (GC)	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			08/07/23 09:40	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		08/03/23 09:25	08/05/23 03:43	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		08/03/23 09:25	08/05/23 03:43	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		08/03/23 09:25	08/05/23 03:43	1
Surrogate	%Recovery	Qualifier	l imite			Propared	Analyzod	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/03/23 09:25	08/05/23 03:43	1
o-Terphenyl	111		70 - 130	08/03/23 09:25	08/05/23 03:43	1

Method: EPA 300.0 - Anions, Id	on Chromatography -	Soluble
Amalusta	Decult Qualifier	DI

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	436	25.0	mg/Kg			07/25/23 15:55	5

Client Sample ID: BH01

Date Collected: 07/20/23 12:30

Lab Sample ID: 890-4976-8

Matrix: Solid

Date Collected: 07/20/23 12:30 Date Received: 07/21/23 09:13

Sample Depth: 0.5

Mothod: CIMOAC 9021D	Volatila	Organic	Compounds	(CC)

method: 547545 6021B - Volutile Grigatio Gempoditus (GG)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/28/23 13:24	07/29/23 22:14	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/28/23 13:24	07/29/23 22:14	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/28/23 13:24	07/29/23 22:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/28/23 13:24	07/29/23 22:14	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/28/23 13:24	07/29/23 22:14	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/28/23 13:24	07/29/23 22:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130			07/28/23 13:24	07/29/23 22:14	1
1,4-Difluorobenzene (Surr)	86		70 - 130			07/28/23 13:24	07/29/23 22:14	1

Method: TAL SOP Total BTFX - Total BTFX Calculation	Coloulation	Total DTEV	Total DTEV	Inthadi TAL COD	Mothodi

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			07/31/23 14:05	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1 U	50.1	mg/Kg		_	08/07/23 09:40	1

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Job ID: 890-4976-1

mg/Kg

Client: Ensolum Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: BH01 Lab Sample ID: 890-4976-8 Date Collected: 07/20/23 12:30

Matrix: Solid

07/25/23 16:10

Date Received: 07/21/23 09:13

Sample Depth: 0.5

Method: SW846 8015B NM - D	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		08/03/23 09:25	08/05/23 04:04	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		08/03/23 09:25	08/05/23 04:04	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		08/03/23 09:25	08/05/23 04:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			08/03/23 09:25	08/05/23 04:04	1
o-Terphenyl	100		70 - 130			08/03/23 09:25	08/05/23 04:04	1
Method: EPA 300.0 - Anions,	lon Chroma	tography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH01A Lab Sample ID: 890-4976-9 Date Collected: 07/20/23 12:45 **Matrix: Solid**

49.5

8000

Date Received: 07/21/23 09:13

Sample Depth: 3

Chloride

	ile Organic							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 22:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 22:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 22:39	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399	mg/Kg		07/28/23 13:24	07/29/23 22:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 22:39	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/28/23 13:24	07/29/23 22:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	1493	S1+	70 - 130			07/28/23 13:24	07/29/23 22:39	1
1,4-Difluorobenzene (Surr)	945	S1+	70 - 130			07/28/23 13:24	07/29/23 22:39	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg		·	07/31/23 14:05	1
-								
=								
Method: SW846 8015 NM - Die	_	•	DRO) (GC)					
Method: SW846 8015 NM - Die Analyte	_	Organics (Qualifier	DRO) (GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
	_	Qualifier	, , ,	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/07/23 09:40	Dil Fac
Analyte Total TPH	Result <49.7	Qualifier U	49.7		<u>D</u>	Prepared		
Analyte	Result <49.7	Qualifier U	49.7		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - D	Result <49.7	Qualifier U Organics Qualifier	49.7 (DRO) (GC)	mg/Kg		<u> </u>	08/07/23 09:40	1
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.7 Viesel Range Result	Qualifier U Organics Qualifier U	49.7 (DRO) (GC)	mg/Kg		Prepared	08/07/23 09:40 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.7 Diesel Range Result <49.7	Qualifier U Organics Qualifier U	RL 49.7 (DRO) (GC) RL 49.7	mg/Kg Unit mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 04:25	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7 Diesel Range Result <49.7 <49.7	Qualifier U Organics Qualifier U U	RL 49.7 (DRO) (GC) RL 49.7 49.7	Unit mg/Kg mg/Kg mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 04:25 08/05/23 04:25	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U Organics Qualifier U U	RL 49.7 (DRO) (GC) RL 49.7 49.7 49.7	Unit mg/Kg mg/Kg mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 04:25 08/05/23 04:25	1 Dil Fac 1 1

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8/8/2023 (Rev. 1)

Job ID: 890-4976-1

Client: Ensolum Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: BH01A Lab Sample ID: 890-4976-9 Date Collected: 07/20/23 12:45

Matrix: Solid

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	379		5.04	mg/Kg			08/08/23 10:43	1	

Client Sample ID: BH02 Lab Sample ID: 890-4976-10

Date Collected: 07/20/23 12:55 Matrix: Solid

Date Received: 07/21/23 09:13

Date Received: 07/21/23 09:13

Sample Depth: 0.5

	tile Organic				_			-
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil F
Benzene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 23:04	
Toluene	< 0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 23:04	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 23:04	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/28/23 13:24	07/29/23 23:04	
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 23:04	
Kylenes, Total	<0.00401	U	0.00401	mg/Kg		07/28/23 13:24	07/29/23 23:04	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil
I-Bromofluorobenzene (Surr)	160	S1+	70 - 130			07/28/23 13:24	07/29/23 23:04	
,4-Difluorobenzene (Surr)	96		70 - 130			07/28/23 13:24	07/29/23 23:04	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil
otal BTEX	<0.00401	U	0.00401	mg/Kg			07/31/23 14:05	
Analyte Total TPH	Result <49.9	Qualifier	RL 49.9	Unit mg/Kg	_ D	Prepared	Analyzed 08/07/23 09:40	Dil
IOIAI IPH	<49.9	U	49.9	mg/Kg			08/07/23 09:40	
Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)					
Analyte	Docult	_						
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil
	<49.9		RL 49.9	Mg/Kg	<u>D</u>	Prepared 08/03/23 09:25	Analyzed 08/05/23 04:46	Dil
GRO)-C6-C10 Diesel Range Organics (Over		U			_ <u>D</u>		08/05/23 04:46	Dil
GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	<u>D</u>	08/03/23 09:25 08/03/23 09:25	08/05/23 04:46	Dil
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	<49.9 <49.9	U U	49.9	mg/Kg	<u> </u>	08/03/23 09:25 08/03/23 09:25	08/05/23 04:46 08/05/23 04:46	
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 <49.9	U U	49.9 49.9 49.9	mg/Kg	<u>D</u>	08/03/23 09:25 08/03/23 09:25 08/03/23 09:25	08/05/23 04:46 08/05/23 04:46 08/05/23 04:46	
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 <49.9 %Recovery	U U	49.9 49.9 49.9 Limits	mg/Kg	<u> </u>	08/03/23 09:25 08/03/23 09:25 08/03/23 09:25 Prepared 08/03/23 09:25	08/05/23 04:46 08/05/23 04:46 08/05/23 04:46 Analyzed	Dil
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane 0-Terphenyl Method: EPA 300.0 - Anions,	<49.9 <49.9 <49.9 %Recovery 90 100	U U U Qualifier	49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	08/03/23 09:25 08/03/23 09:25 08/03/23 09:25 Prepared 08/03/23 09:25	08/05/23 04:46 08/05/23 04:46 08/05/23 04:46 Analyzed 08/05/23 04:46	

07/25/23 16:30

mg/Kg

4.97

101

Chloride

Client: Ensolum Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: BH02A Lab Sample ID: 890-4976-11

Date Collected: 07/20/23 13:10 **Matrix: Solid** Date Received: 07/21/23 09:13

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/30/23 00:46	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/30/23 00:46	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/30/23 00:46	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/28/23 13:24	07/30/23 00:46	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/30/23 00:46	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/28/23 13:24	07/30/23 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130			07/28/23 13:24	07/30/23 00:46	1
1,4-Difluorobenzene (Surr)	74		70 - 130			07/28/23 13:24	07/30/23 00:46	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/31/23 14:05	1
Method: SW846 8015 NM - Did Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/07/23 09:40	1
Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/03/23 09:25	08/05/23 05:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/03/23 09:25	08/05/23 05:28	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/03/23 09:25	08/05/23 05:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			08/03/23 09:25	08/05/23 05:28	1
o-Terphenyl	98		70 - 130			08/03/23 09:25	08/05/23 05:28	1
Method: EPA 300.0 - Anions,	lon Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS10 Lab Sample ID: 890-4976-12 **Matrix: Solid**

4.95

mg/Kg

212

Date Collected: 07/20/23 13:20

Date Received: 07/21/23 09:13

Sample Depth: 3.5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/28/23 13:24	07/30/23 01:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/28/23 13:24	07/30/23 01:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/28/23 13:24	07/30/23 01:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/28/23 13:24	07/30/23 01:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/28/23 13:24	07/30/23 01:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/28/23 13:24	07/30/23 01:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			07/28/23 13:24	07/30/23 01:12	1

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07/25/23 16:35

Matrix: Solid

Client: Ensolum

Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: FS10 Lab Sample ID: 890-4976-12

Date Collected: 07/20/23 13:20 Date Received: 07/21/23 09:13

Sample Depth: 3.5

Surrogate	%Recovery Qu	ıalifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87	70 - 130	07/28/23 13:24	07/30/23 01:12	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/31/23 14:05	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			08/07/23 09:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		08/03/23 09:25	08/05/23 05:49	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		08/03/23 09:25	08/05/23 05:49	1
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		08/03/23 09:25	08/05/23 05:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87	70 - 130	08/03/23 09:25	08/05/23 05:49	1
o-Terphenyl	98	70 - 130	08/03/23 09:25	08/05/23 05:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	442		25.3	mg/Kg			08/08/23 10:58	5

Client Sample ID: SW03 Lab Sample ID: 890-4976-13 **Matrix: Solid**

Date Collected: 07/20/23 13:30 Date Received: 07/21/23 09:13

Sample Depth: 0 - 3

Mothod: CIMOAC 9024D	Volatila Organia	c Compounds	(CC)

			(/					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/28/23 13:24	07/30/23 01:37	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/28/23 13:24	07/30/23 01:37	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/28/23 13:24	07/30/23 01:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/28/23 13:24	07/30/23 01:37	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/28/23 13:24	07/30/23 01:37	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/28/23 13:24	07/30/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130			07/28/23 13:24	07/30/23 01:37	1
1,4-Difluorobenzene (Surr)	91		70 - 130			07/28/23 13:24	07/30/23 01:37	1

Method: TAL SOP Total RTFX - Total RTFX Ca	doulation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/31/23 14:05	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			08/07/23 09:40	1	

Client: Ensolum Job ID: 890-4976-1

Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: SW03 Lab Sample ID: 890-4976-13 Date Collected: 07/20/23 13:30 **Matrix: Solid**

Date Received: 07/21/23 09:13 Sample Depth: 0 - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		08/03/23 09:25	08/05/23 06:10	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		08/03/23 09:25	08/05/23 06:10	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		08/03/23 09:25	08/05/23 06:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			08/03/23 09:25	08/05/23 06:10	1
o-Terphenyl	96		70 - 130			08/03/23 09:25	08/05/23 06:10	1
Method: EPA 300.0 - Anions,	on Chroma	tography -	- Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5.01 07/25/23 16:45 **Chloride** 301 mg/Kg

Client Sample ID: FS09 Lab Sample ID: 890-4976-14 Date Collected: 07/20/23 13:55 **Matrix: Solid**

Date Received: 07/21/23 09:13

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/30/23 02:03	1
Toluene	< 0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/30/23 02:03	1
Ethylbenzene	< 0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/30/23 02:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/28/23 13:24	07/30/23 02:03	1
o-Xylene	< 0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/30/23 02:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/28/23 13:24	07/30/23 02:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130			07/28/23 13:24	07/30/23 02:03	1
1,4-Difluorobenzene (Surr)	78		70 - 130			07/28/23 13:24	07/30/23 02:03	1
	esel Range (Organics (DRO) (GC)	mg/Kg				
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			08/07/23 09:40	1
Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		08/03/23 09:25	08/05/23 06:30	1
Diesel Range Organics (Over	<50.2	U	50.2	mg/Kg		08/03/23 09:25	08/05/23 06:30	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		08/03/23 09:25	08/05/23 06:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
			70 - 130			08/03/23 09:25	08/05/23 06:30	

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08/03/23 09:25 08/05/23 06:30

70 - 130

105

o-Terphenyl

Client: Ensolum Project/Site: Remuda 500 Tank Battery

Job ID: 890-4976-1

Lab Sample ID: 890-4976-14

SDG: 03C1558255

Matrix: Solid

Client Sample ID: FS09

Date Collected: 07/20/23 13:55 Date Received: 07/21/23 09:13

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	572		25.3	mg/Kg			07/25/23 16:50	5	

Client Sample ID: SW04 Lab Sample ID: 890-4976-15 Matrix: Solid

Date Collected: 07/20/23 14:10 Date Received: 07/21/23 09:13

Sample Depth: 0 - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/30/23 02:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/30/23 02:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/30/23 02:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/28/23 13:24	07/30/23 02:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/30/23 02:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/28/23 13:24	07/30/23 02:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	186	S1+	70 - 130			07/28/23 13:24	07/30/23 02:28	1
1,4-Difluorobenzene (Surr)	108		70 - 130			07/28/23 13:24	07/30/23 02:28	1

	WELLIOU. THE SUP TOTAL BLEX	· IULAI DIE	A Gaiculat	IOII					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total BTEX	<0.00399	U	0.00399	mg/Kg			07/31/23 14:05	1

Method: SW846 8015 NM - Die	esel Range Organics ((DRO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4 U	50.4	mg/Kg			08/07/23 09:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		08/03/23 09:25	08/05/23 06:55	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		08/03/23 09:25	08/05/23 06:55	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		08/03/23 09:25	08/05/23 06:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			08/03/23 09:25	08/05/23 06:55	1
o-Terphenyl	94		70 - 130			08/03/23 09:25	08/05/23 06:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1080	24.9	mg/Kg			07/25/23 16:55	5

Client: Ensolum Job ID: 890-4976-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: BH03 Lab Sample ID: 890-4976-16

Date Collected: 07/20/23 14:25 Matrix: Solid
Date Received: 07/21/23 09:13

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/30/23 02:54	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/30/23 02:54	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/30/23 02:54	1
m-Xylene & p-Xylene	< 0.00403	U	0.00403	mg/Kg		07/28/23 13:24	07/30/23 02:54	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/28/23 13:24	07/30/23 02:54	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/28/23 13:24	07/30/23 02:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	165	S1+	70 - 130			07/28/23 13:24	07/30/23 02:54	1
1,4-Difluorobenzene (Surr)	97		70 - 130			07/28/23 13:24	07/30/23 02:54	1
Method: TAL SOP Total BTEX	C - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	mg/Kg		-	07/31/23 14:05	1
				Unit	n	Prenared	Analyzed	Dil Fac
		Organics (Qualifier	DRO) (GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/07/23 09:40	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E	Result <50.5	Qualifier U Organics	RL 50.5 (DRO) (GC)	mg/Kg	<u>D</u>	<u> </u>	08/07/23 09:40	1
Analyte Total TPH Method: SW846 8015B NM - E Analyte	Result <50.5 Diesel Range Result	Qualifier U Organics Qualifier	RL 50.5 (DRO) (GC) RL	mg/Kg Unit	<u>D</u>	Prepared	08/07/23 09:40 Analyzed	1
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics	Result <50.5	Qualifier U Organics Qualifier	RL 50.5 (DRO) (GC)	mg/Kg		<u> </u>	08/07/23 09:40	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.5 Diesel Range Result	Qualifier U Organics Qualifier U	RL 50.5 (DRO) (GC) RL	mg/Kg Unit		Prepared 08/03/23 09:25	08/07/23 09:40 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - December 2015 NM - Decembe	Result <50.5 Diesel Range Result <50.5	Qualifier U Organics Qualifier U	RL 50.5 (DRO) (GC) RL 50.5	mg/Kg Unit mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 07:18	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.5	Qualifier U Organics Qualifier U U	RL 50.5 (DRO) (GC) RL 50.5 50.5	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 07:18 08/05/23 07:18	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.5	Qualifier U Organics Qualifier U U	RL 50.5 (DRO) (GC) RL 50.5 50.5 50.5	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 07:18 08/05/23 07:18 08/05/23 07:18	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.5	Qualifier U Organics Qualifier U U	RL 50.5 (DRO) (GC) RL 50.5 50.5 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25 08/03/23 09:25 Prepared 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 07:18 08/05/23 07:18 08/05/23 07:18 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.5	Qualifier U Organics Qualifier U U U Qualifier	RL 50.5 (DRO) (GC) RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25 08/03/23 09:25 Prepared 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 07:18 08/05/23 07:18 08/05/23 07:18 Analyzed 08/05/23 07:18	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 1 Dil Fac
Method: SW846 8015 NM - Dic Analyte Total TPH Method: SW846 8015B NM - Dic Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Analyte	Result	Qualifier U Organics Qualifier U U U Qualifier	RL 50.5 (DRO) (GC) RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 09:25 08/03/23 09:25 08/03/23 09:25 Prepared 08/03/23 09:25	08/07/23 09:40 Analyzed 08/05/23 07:18 08/05/23 07:18 08/05/23 07:18 Analyzed 08/05/23 07:18	1 Dil Fac 1 1 1 1 Dil Fac 1

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Surrogate Summary

Client: Ensolum Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Perce	nt Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4976-1	FS03	135 S1+	87	
890-4976-1 MS	FS03	155 S1+	98	
890-4976-1 MSD	FS03	158 S1+	103	
890-4976-2	FS06	147 S1+	74	
890-4976-3	FS07	167 S1+	101	
890-4976-4	FS08	160 S1+	103	
890-4976-5	FS02	167 S1+	98	
890-4976-6	FS11	136 S1+	87	
890-4976-7	FS12	181 S1+	115	
890-4976-8	BH01	151 S1+	86	
890-4976-9	BH01A	1493 S1+	945 S1+	
890-4976-10	BH02	160 S1+	96	
890-4976-11	BH02A	147 S1+	74	
890-4976-12	FS10	143 S1+	87	
890-4976-13	SW03	162 S1+	91	
890-4976-14	FS09	151 S1+	78	
890-4976-15	SW04	186 S1+	108	
890-4976-16	BH03	165 S1+	97	
LCS 880-58735/1-A	Lab Control Sample	117	88	
LCSD 880-58735/2-A	Lab Control Sample Dup	144 S1+	96	
MB 880-58735/5-A	Method Blank	79	82	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Perce	ent Surrog
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4976-1	FS03	92	100	
890-4976-1 MS	FS03	99	96	
890-4976-1 MSD	FS03	99	95	
890-4976-2	FS06	96	110	
890-4976-3	FS07	95	107	
890-4976-4	FS08	87	96	
890-4976-5	FS02	95	106	
890-4976-6	FS11	89	99	
890-4976-7	FS12	100	111	
890-4976-8	BH01	89	100	
890-4976-9	BH01A	86	96	
890-4976-10	BH02	90	100	
890-4976-11	BH02A	87	98	
890-4976-12	FS10	87	98	
890-4976-13	SW03	88	96	
890-4976-14	FS09	93	105	
890-4976-15	SW04	88	94	
890-4976-16	BH03	93	103	

Surrogate Summary

Client: Ensolum Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

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

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
		1CO1	OTPH1					
Lab Sample ID	Client Sample ID	(70-130)	(70-130)					
LCS 880-59186/2-A	Lab Control Sample	97	100					
LCSD 880-59186/3-A	Lab Control Sample Dup	88	89					
MB 880-59186/1-A	Method Blank	85	97					
Surrogate Legend								
1CO = 1-Chlorooctane								
OTPH = o-Terphenyl								

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Client: Ensolum Project/Site: Remuda 500 Tank Battery

MD MD

Job ID: 890-4976-1

SDG: 03C1558255

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58735/5-A

Lab Sample ID: LCS 880-58735/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 58782

Analysis Batch: 58782

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 58735

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 18:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 18:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 18:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/28/23 13:24	07/29/23 18:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/28/23 13:24	07/29/23 18:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/28/23 13:24	07/29/23 18:51	1
	MR	MR						

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79	70 - 130	07/28/23 13:24	07/29/23 18:51	1
1,4-Difluorobenzene (Surr)	82	70 - 130	07/28/23 13:24	07/29/23 18:51	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58735

Prep Type: Total/NA

Prep Batch: 58735

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 96 70 - 130 0.100 0.09556 mg/Kg Toluene 0.100 0.09532 mg/Kg 70 - 130 95 Ethylbenzene 0.100 0.1016 mg/Kg 102 70 - 130 m-Xylene & p-Xylene 0.200 0.1885 mg/Kg 94 70 - 130 o-Xylene 0.100 0.09037 mg/Kg 90 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-58735/2-A

Analysis Batch: 58782

•	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1172		mg/Kg		117	70 - 130	20	35
Toluene	0.100	0.1169		mg/Kg		117	70 - 130	20	35
Ethylbenzene	0.100	0.1255		mg/Kg		126	70 - 130	21	35
m-Xylene & p-Xylene	0.200	0.2264		mg/Kg		113	70 - 130	18	35
o-Xvlene	0.100	0.1156		ma/Ka		116	70 - 130	24	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-4976-1 MS

Matrix: Solid

Analysis Batch: 58782

	Prep Type: Total/NA	
	Prep Batch: 58735	
	%Rec	

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0996	0.1169		mg/Kg		117	70 - 130	
Toluene	<0.00202	U	0.0996	0.1192		mg/Kg		120	70 - 130	

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Client Sample ID: FS03

QC Sample Results

Client: Ensolum Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

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

Lab Sample ID: 890-4976-1 MS

Analysis Batch: 58782

Matrix: Solid Prep Type: Total/NA Prep Batch: 58735 **~** ..

	Sample	Sample	Spike	IVIS	IVIS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U F1	0.0996	0.1254		mg/Kg		126	70 - 130	
m-Xylene & p-Xylene	<0.00404	U	0.199	0.2223		mg/Kg		112	70 - 130	
o-Xylene	<0.00202	U	0.0996	0.1178		mg/Kg		118	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-4976-1 MSD

Matrix: Solid

Analysis Batch: 58782

Client Sample ID: FS03 Prep Type: Total/NA

Prep Batch: 58735 %Rec **RPD**

Client Sample ID: FS03

Sample Sample Spike MSD MSD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00202 U 0.0994 0.1214 mg/Kg 122 70 - 130 4 35 Toluene <0.00202 U 0.0994 0.1228 124 70 - 130 35 mg/Kg 0.0994 133 Ethylbenzene <0.00202 UF1 0.1325 F1 mg/Kg 70 - 130 5 35 m-Xylene & p-Xylene <0.00404 U 0.199 0.2321 mg/Kg 117 70 - 130 35 <0.00202 U 0.0994 122 o-Xylene 0.1208 mg/Kg 70 - 130

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-59186/1-A

Matrix: Solid

Analysis Batch: 59287

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 59186

, , , , , , , , , , , , , , , , , , , ,	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/03/23 09:24	08/04/23 23:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/03/23 09:24	08/04/23 23:48	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/03/23 09:24	08/04/23 23:48	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	08/03/23 09:24	08/04/23 23:48	1
o-Terphenyl	97		70 - 130	08/03/23 09:24	08/04/23 23:48	1

Lab Sample ID: LCS 880-59186/2-A

Matrix: Solid

Analysis Batch: 59287

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

Prep Batch: 59186

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	701.2		mg/Kg		70	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	939.6		mg/Kg		94	70 - 130	

Client: Ensolum Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

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

Lab Sample ID: LCS 880-59186/2-A

Lab Sample ID: LCSD 880-59186/3-A

Matrix: Solid

Analysis Batch: 59287

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59186

LCS LCS

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 97 70 - 130 o-Terphenyl 100 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 59287

Prep Batch: 59186

LCSD LCSD RPD %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 741.9 mg/Kg 74 70 - 130 6 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 972.4 mg/Kg 97 70 - 130 3 20 C10-C28)

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 88 70 - 130 70 - 130 o-Terphenyl 89

Lab Sample ID: 890-4976-1 MS Client Sample ID: FS03

Matrix: Solid

Analysis Batch: 59287

Prep Type: Total/NA Prep Batch: 59186

%Rec

Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec <50.5 U Gasoline Range Organics 998 763.0 mg/Kg 73 70 - 130 (GRO)-C6-C10 998 Diesel Range Organics (Over <50.5 U 975.4 mg/Kg 96 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 99 o-Terphenyl 96 70 - 130

Lab Sample ID: 890-4976-1 MSD Client Sample ID: FS03

Matrix: Solid Prep Type: Total/NA Analysis Batch: 59287 Prep Batch: 59186

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit %Rec Gasoline Range Organics <50.5 U 998 792.0 76 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.5 U 998 969.3 mg/Kg 95 70 - 130 20

C10-C28)

MSD MSD

Surrogate	%Recovery Q	ualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	95		70 - 130

Client: Ensolum Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58383/1-A

Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 58469

Prep Type: Soluble

MB MB

Result Qualifier RL Unit D Analyzed Dil Fac Analyte Prepared 5.00 07/25/23 14:31 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-58383/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 58469

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits Analyte 250 90 - 110 Chloride 2415 mg/Kg 97

Lab Sample ID: LCSD 880-58383/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 58469

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD Analyte** Unit D %Rec Limit Chloride 250 242.7 97 20 mg/Kg

Lab Sample ID: 890-4976-7 MS Client Sample ID: FS12 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 58469

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1250 1696 Chloride 436 mg/Kg 101 90 - 110

Lab Sample ID: 890-4976-7 MSD

Matrix: Solid

Analysis Batch: 58469

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added RPD Result Qualifier Unit %Rec Limits Limit Chloride 1250 1699 101 436 mg/Kg 90 - 110

Lab Sample ID: MB 880-59549/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 59619

MB MB

Result Qualifier Analyte RL Unit D Dil Fac Prepared Analyzed 5.00 08/08/23 10:28 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-59549/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 59619

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 235.7 mg/Kg 94 90 - 110

Lab Sample ID: LCSD 880-59549/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 59619

Released to Imaging: 2/8/2024 2:10:25 PM

Spike LCSD LCSD %Rec **RPD** Added **RPD** Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 258.0 mg/Kg 103 90 - 110 20

Eurofins Carlsbad

Client Sample ID: FS12

Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4976-9 MS Client Sample ID: BH01A **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 59619

7 thatyold Batoni doord											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	379		252	633.8		mg/Kg		101	90 - 110		•

Lab Sample ID: 890-4976-9 MSD Client Sample ID: BH01A

Matrix: Solid Prep Type: Soluble

Analysis Batch: 59619

RPD Sample Sample Spike MSD MSD %Rec

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 379 252 631.4 100 90 - 110 0 mg/Kg

Client: Ensolum

Project/Site: Remuda 500 Tank Battery

Job ID: 890-4976-1 SDG: 03C1558255

GC VOA

Prep Batch: 58735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4976-1	FS03	Total/NA	Solid	5035	_
890-4976-2	FS06	Total/NA	Solid	5035	
890-4976-3	FS07	Total/NA	Solid	5035	
890-4976-4	FS08	Total/NA	Solid	5035	
890-4976-5	FS02	Total/NA	Solid	5035	
890-4976-6	FS11	Total/NA	Solid	5035	
890-4976-7	FS12	Total/NA	Solid	5035	
890-4976-8	BH01	Total/NA	Solid	5035	
890-4976-9	BH01A	Total/NA	Solid	5035	
890-4976-10	BH02	Total/NA	Solid	5035	
890-4976-11	BH02A	Total/NA	Solid	5035	
890-4976-12	FS10	Total/NA	Solid	5035	
890-4976-13	SW03	Total/NA	Solid	5035	
890-4976-14	FS09	Total/NA	Solid	5035	
890-4976-15	SW04	Total/NA	Solid	5035	
890-4976-16	BH03	Total/NA	Solid	5035	
MB 880-58735/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58735/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58735/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4976-1 MS	FS03	Total/NA	Solid	5035	
890-4976-1 MSD	FS03	Total/NA	Solid	5035	

Analysis Batch: 58782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4976-1	FS03	Total/NA	Solid	8021B	58735
890-4976-2	FS06	Total/NA	Solid	8021B	58735
890-4976-3	FS07	Total/NA	Solid	8021B	58735
890-4976-4	FS08	Total/NA	Solid	8021B	58735
890-4976-5	FS02	Total/NA	Solid	8021B	58735
890-4976-6	FS11	Total/NA	Solid	8021B	58735
890-4976-7	FS12	Total/NA	Solid	8021B	58735
890-4976-8	BH01	Total/NA	Solid	8021B	58735
890-4976-9	BH01A	Total/NA	Solid	8021B	58735
890-4976-10	BH02	Total/NA	Solid	8021B	58735
890-4976-11	BH02A	Total/NA	Solid	8021B	58735
890-4976-12	FS10	Total/NA	Solid	8021B	58735
890-4976-13	SW03	Total/NA	Solid	8021B	58735
890-4976-14	FS09	Total/NA	Solid	8021B	58735
890-4976-15	SW04	Total/NA	Solid	8021B	58735
890-4976-16	BH03	Total/NA	Solid	8021B	58735
MB 880-58735/5-A	Method Blank	Total/NA	Solid	8021B	58735
LCS 880-58735/1-A	Lab Control Sample	Total/NA	Solid	8021B	58735
LCSD 880-58735/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58735
890-4976-1 MS	FS03	Total/NA	Solid	8021B	58735
890-4976-1 MSD	FS03	Total/NA	Solid	8021B	58735

Analysis Batch: 58870

Lab Sample ID 890-4976-1	Client Sample ID FS03	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-4976-2	FS06	Total/NA	Solid	Total BTEX	
890-4976-3	FS07	Total/NA	Solid	Total BTEX	

Client: Ensolum

Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

GC VOA (Continued)

Analysis Batch: 58870 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4976-4	FS08	Total/NA	Solid	Total BTEX	
890-4976-5	FS02	Total/NA	Solid	Total BTEX	
890-4976-6	FS11	Total/NA	Solid	Total BTEX	
890-4976-7	FS12	Total/NA	Solid	Total BTEX	
890-4976-8	BH01	Total/NA	Solid	Total BTEX	
890-4976-9	BH01A	Total/NA	Solid	Total BTEX	
890-4976-10	BH02	Total/NA	Solid	Total BTEX	
890-4976-11	BH02A	Total/NA	Solid	Total BTEX	
890-4976-12	FS10	Total/NA	Solid	Total BTEX	
890-4976-13	SW03	Total/NA	Solid	Total BTEX	
890-4976-14	FS09	Total/NA	Solid	Total BTEX	
890-4976-15	SW04	Total/NA	Solid	Total BTEX	
890-4976-16	ВН03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4976-1	FS03	Total/NA	Solid	8015NM Prep	
890-4976-2	FS06	Total/NA	Solid	8015NM Prep	
890-4976-3	FS07	Total/NA	Solid	8015NM Prep	
890-4976-4	FS08	Total/NA	Solid	8015NM Prep	
890-4976-5	FS02	Total/NA	Solid	8015NM Prep	
890-4976-6	FS11	Total/NA	Solid	8015NM Prep	
890-4976-7	FS12	Total/NA	Solid	8015NM Prep	
890-4976-8	BH01	Total/NA	Solid	8015NM Prep	
890-4976-9	BH01A	Total/NA	Solid	8015NM Prep	
890-4976-10	BH02	Total/NA	Solid	8015NM Prep	
890-4976-11	BH02A	Total/NA	Solid	8015NM Prep	
890-4976-12	FS10	Total/NA	Solid	8015NM Prep	
890-4976-13	SW03	Total/NA	Solid	8015NM Prep	
890-4976-14	FS09	Total/NA	Solid	8015NM Prep	
890-4976-15	SW04	Total/NA	Solid	8015NM Prep	
890-4976-16	BH03	Total/NA	Solid	8015NM Prep	
MB 880-59186/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59186/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59186/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4976-1 MS	FS03	Total/NA	Solid	8015NM Prep	
890-4976-1 MSD	FS03	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4976-1	FS03	Total/NA	Solid	8015B NM	59186
890-4976-2	FS06	Total/NA	Solid	8015B NM	59186
890-4976-3	FS07	Total/NA	Solid	8015B NM	59186
890-4976-4	FS08	Total/NA	Solid	8015B NM	59186
890-4976-5	FS02	Total/NA	Solid	8015B NM	59186
890-4976-6	FS11	Total/NA	Solid	8015B NM	59186
890-4976-7	FS12	Total/NA	Solid	8015B NM	59186
890-4976-8	BH01	Total/NA	Solid	8015B NM	59186
890-4976-9	BH01A	Total/NA	Solid	8015B NM	59186

Client: Ensolum

Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

GC Semi VOA (Continued)

Analysis Batch: 59287 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4976-10	BH02	Total/NA	Solid	8015B NM	59186
890-4976-11	BH02A	Total/NA	Solid	8015B NM	59186
890-4976-12	FS10	Total/NA	Solid	8015B NM	59186
890-4976-13	SW03	Total/NA	Solid	8015B NM	59186
890-4976-14	FS09	Total/NA	Solid	8015B NM	59186
890-4976-15	SW04	Total/NA	Solid	8015B NM	59186
890-4976-16	BH03	Total/NA	Solid	8015B NM	59186
MB 880-59186/1-A	Method Blank	Total/NA	Solid	8015B NM	59186
LCS 880-59186/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59186
LCSD 880-59186/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59186
890-4976-1 MS	FS03	Total/NA	Solid	8015B NM	59186
890-4976-1 MSD	FS03	Total/NA	Solid	8015B NM	59186

Analysis Batch: 59455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4976-1	FS03	Total/NA	Solid	8015 NM	
890-4976-2	FS06	Total/NA	Solid	8015 NM	
890-4976-3	FS07	Total/NA	Solid	8015 NM	
890-4976-4	FS08	Total/NA	Solid	8015 NM	
890-4976-5	FS02	Total/NA	Solid	8015 NM	
890-4976-6	FS11	Total/NA	Solid	8015 NM	
890-4976-7	FS12	Total/NA	Solid	8015 NM	
890-4976-8	BH01	Total/NA	Solid	8015 NM	
890-4976-9	BH01A	Total/NA	Solid	8015 NM	
890-4976-10	BH02	Total/NA	Solid	8015 NM	
890-4976-11	BH02A	Total/NA	Solid	8015 NM	
890-4976-12	FS10	Total/NA	Solid	8015 NM	
890-4976-13	SW03	Total/NA	Solid	8015 NM	
890-4976-14	FS09	Total/NA	Solid	8015 NM	
890-4976-15	SW04	Total/NA	Solid	8015 NM	
890-4976-16	BH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4976-1	FS03	Soluble	Solid	DI Leach	
890-4976-2	FS06	Soluble	Solid	DI Leach	
890-4976-3	FS07	Soluble	Solid	DI Leach	
890-4976-4	FS08	Soluble	Solid	DI Leach	
890-4976-5	FS02	Soluble	Solid	DI Leach	
890-4976-6	FS11	Soluble	Solid	DI Leach	
890-4976-7	FS12	Soluble	Solid	DI Leach	
890-4976-8	BH01	Soluble	Solid	DI Leach	
890-4976-10	BH02	Soluble	Solid	DI Leach	
890-4976-11	BH02A	Soluble	Solid	DI Leach	
890-4976-13	SW03	Soluble	Solid	DI Leach	
890-4976-14	FS09	Soluble	Solid	DI Leach	
890-4976-15	SW04	Soluble	Solid	DI Leach	
890-4976-16	BH03	Soluble	Solid	DI Leach	
MB 880-58383/1-A	Method Blank	Soluble	Solid	DI Leach	

Client: Ensolum

Project/Site: Remuda 500 Tank Battery

Job ID: 890-4976-1

SDG: 03C1558255

HPLC/IC (Continued)

Leach Batch: 58383 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-58383/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58383/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4976-7 MS	FS12	Soluble	Solid	DI Leach	
890-4976-7 MSD	FS12	Soluble	Solid	DI Leach	

Analysis Batch: 58469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4976-1	FS03	Soluble	Solid	300.0	58383
890-4976-2	FS06	Soluble	Solid	300.0	58383
890-4976-3	FS07	Soluble	Solid	300.0	58383
890-4976-4	FS08	Soluble	Solid	300.0	58383
890-4976-5	FS02	Soluble	Solid	300.0	58383
890-4976-6	FS11	Soluble	Solid	300.0	58383
890-4976-7	FS12	Soluble	Solid	300.0	58383
890-4976-8	BH01	Soluble	Solid	300.0	58383
890-4976-10	BH02	Soluble	Solid	300.0	58383
890-4976-11	BH02A	Soluble	Solid	300.0	58383
890-4976-13	SW03	Soluble	Solid	300.0	58383
890-4976-14	FS09	Soluble	Solid	300.0	58383
890-4976-15	SW04	Soluble	Solid	300.0	58383
890-4976-16	BH03	Soluble	Solid	300.0	58383
MB 880-58383/1-A	Method Blank	Soluble	Solid	300.0	58383
LCS 880-58383/2-A	Lab Control Sample	Soluble	Solid	300.0	58383
LCSD 880-58383/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58383
890-4976-7 MS	FS12	Soluble	Solid	300.0	58383
890-4976-7 MSD	FS12	Soluble	Solid	300.0	58383

Leach Batch: 59549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4976-9	BH01A	Soluble	Solid	DI Leach	
890-4976-12	FS10	Soluble	Solid	DI Leach	
MB 880-59549/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59549/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59549/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4976-9 MS	BH01A	Soluble	Solid	DI Leach	
890-4976-9 MSD	BH01A	Soluble	Solid	DI Leach	

Analysis Batch: 59619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4976-9	BH01A	Soluble	Solid	300.0	59549
890-4976-12	FS10	Soluble	Solid	300.0	59549
MB 880-59549/1-A	Method Blank	Soluble	Solid	300.0	59549
LCS 880-59549/2-A	Lab Control Sample	Soluble	Solid	300.0	59549
LCSD 880-59549/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59549
890-4976-9 MS	BH01A	Soluble	Solid	300.0	59549
890-4976-9 MSD	BH01A	Soluble	Solid	300.0	59549

Project/Site: Remuda 500 Tank Battery

Client Sample ID: FS03

Date Collected: 07/20/23 11:25

Date Received: 07/21/23 09:13

Client: Ensolum

SDG: 03C1558255

Lab Sample ID: 890-4976-1

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab 5035 58735 EET MID Total/NA Prep 4.95 g 5 mL 07/28/23 13:24 Total/NA 8021B 58782 07/29/23 19:17 AJ Analysis 1 5 mL 5 mL **EET MID** Total/NA Analysis Total BTEX 58870 07/31/23 14:05 AJ **EET MID** Total/NA Analysis 8015 NM 1 59455 08/07/23 09:40 SM **EET MID** Total/NA Prep 8015NM Prep 9.91 g 10 mL 59186 08/03/23 09:25 TKC **EET MID** Total/NA Analysis 8015B NM 1 1 uL 1 uL 59287 08/05/23 00:53 SM **EET MID** Soluble Leach DI Leach 5.01 g 50 mL 58383 07/24/23 14:48 KS **EET MID** Soluble 300.0 5 58469 07/25/23 15:15 CH **EET MID** Analysis

Client Sample ID: FS06 Lab Sample ID: 890-4976-2 Date Collected: 07/20/23 11:30 Matrix: Solid

Date Received: 07/21/23 09:13

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA 5035 58735 07/28/23 13:24 EL EET MID Prep 4.96 g 5 mL Total/NA 8021B 5 mL 58782 07/29/23 19:42 AJ **EET MID** Analysis 5 mL 1 Total/NA Analysis Total BTEX 58870 07/31/23 14:05 AJ **EET MID** 1 Total/NA 8015 NM Analysis 1 59455 08/07/23 09:40 SM **EET MID** Total/NA Prep 8015NM Prep 10.08 g 10 mL 59186 08/03/23 09:25 TKC **EET MID** Total/NA 8015B NM Analysis 1 1 uL 1 uL 59287 08/05/23 01:57 SM **EET MID** Soluble DI Leach 5.05 g 50 mL 58383 07/24/23 14:48 KS **EET MID** Leach Soluble Analysis 300.0 5 58469 07/25/23 15:30 CH **EET MID**

Client Sample ID: FS07 Lab Sample ID: 890-4976-3 Date Collected: 07/20/23 11:35 Matrix: Solid

Date Received: 07/21/23 09:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	58735	07/28/23 13:24	EL	EET MI
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/29/23 20:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MI
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	59186	08/03/23 09:25	TKC	EET MI
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/05/23 02:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58383	07/24/23 14:48	KS	EET MI
Soluble	Analysis	300.0		5			58469	07/25/23 15:35	CH	EET MII

Client Sample ID: FS08 Lab Sample ID: 890-4976-4 Date Collected: 07/20/23 11:40 **Matrix: Solid**

Date Received: 07/21/23 09:13

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	58735	07/28/23 13:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/29/23 20:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MID

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Job ID: 890-4976-1

Client: Ensolum Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: FS08 Lab Sample ID: 890-4976-4 Date Collected: 07/20/23 11:40 Matrix: Solid

Date Received: 07/21/23 09:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	59186	08/03/23 09:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/05/23 02:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58383	07/24/23 14:48	KS	EET MID
Soluble	Analysis	300.0		5			58469	07/25/23 15:40	CH	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-4976-5 Date Collected: 07/20/23 12:05 **Matrix: Solid**

Date Received: 07/21/23 09:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	58735	07/28/23 13:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/29/23 20:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	59186	08/03/23 09:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/05/23 03:01	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58383	07/24/23 14:48	KS	EET MID
Soluble	Analysis	300.0		5			58469	07/25/23 15:45	CH	EET MID

Client Sample ID: FS11 Lab Sample ID: 890-4976-6 Date Collected: 07/20/23 12:20 **Matrix: Solid**

Date Received: 07/21/23 09:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	58735	07/28/23 13:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/29/23 21:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	59186	08/03/23 09:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/05/23 03:22	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58383	07/24/23 14:48	KS	EET MID
Soluble	Analysis	300.0		5			58469	07/25/23 15:50	CH	EET MID

Client Sample ID: FS12 Lab Sample ID: 890-4976-7 Date Collected: 07/20/23 12:25 **Matrix: Solid**

Date Received: 07/21/23 09:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	58735	07/28/23 13:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/29/23 21:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	9.94 g 1 uL	10 mL 1 uL	59186 59287	08/03/23 09:25 08/05/23 03:43	TKC SM	EET MID EET MID

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Client: Ensolum Job ID: 890-4976-1 Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Client Sample ID: FS12

Date Collected: 07/20/23 12:25 Date Received: 07/21/23 09:13

Lab Sample ID: 890-4976-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	58383	07/24/23 14:48	KS	EET MID
Soluble	Analysis	300.0		5			58469	07/25/23 15:55	CH	EET MID

Client Sample ID: BH01 Lab Sample ID: 890-4976-8 Matrix: Solid

Date Collected: 07/20/23 12:30 Date Received: 07/21/23 09:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58735	07/28/23 13:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/29/23 22:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	59186	08/03/23 09:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/05/23 04:04	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58383	07/24/23 14:48	KS	EET MID
Soluble	Analysis	300.0		10			58469	07/25/23 16:10	CH	EET MID

Lab Sample ID: 890-4976-9 Client Sample ID: BH01A **Matrix: Solid**

Date Collected: 07/20/23 12:45

Date Received: 07/21/23 09:13

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	58735	07/28/23 13:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/29/23 22:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	59186	08/03/23 09:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/05/23 04:25	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59549	08/07/23 15:55	KS	EET MID
Soluble	Analysis	300.0		1			59619	08/08/23 10:43	CH	EET MID

Client Sample ID: BH02 Lab Sample ID: 890-4976-10 Date Collected: 07/20/23 12:55

Date Received: 07/21/23 09:13

Released to Imaging: 2/8/2024 2:10:25 PM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58735	07/28/23 13:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/29/23 23:04	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	59186	08/03/23 09:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/05/23 04:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58383	07/24/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1			58469	07/25/23 16:30	CH	EET MID

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Matrix: Solid

Project/Site: Remuda 500 Tank Battery

SDG: 03C1558255

Lab Sample ID: 890-4976-11

Matrix: Solid

Client Sample ID: BH02A Date Collected: 07/20/23 13:10 Date Received: 07/21/23 09:13

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58735	07/28/23 13:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 00:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	59186	08/03/23 09:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/05/23 05:28	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58383	07/24/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1			58469	07/25/23 16:35	CH	EET MID

Client Sample ID: FS10 Lab Sample ID: 890-4976-12 Date Collected: 07/20/23 13:20 **Matrix: Solid**

Date Received: 07/21/23 09:13

Batch Batch Dil Initial Final Batch Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount** Amount **Analyst** Lab Total/NA 5035 58735 07/28/23 13:24 EL EET MID Prep 5.02 g 5 mL 8021B Total/NA 5 mL 58782 07/30/23 01:12 AJ **EET MID** Analysis 5 mL 1 Total/NA Total BTEX 07/31/23 14:05 AJ Analysis 1 58870 **EET MID** Total/NA 8015 NM 59455 **EET MID** Analysis 1 08/07/23 09:40 SM Total/NA Prep 8015NM Prep 9.96 g 10 mL 59186 08/03/23 09:25 TKC **EET MID** Total/NA 8015B NM 59287 **EET MID** Analysis 1 uL 1 uL 08/05/23 05:49 SM Soluble 50 mL 59549 Leach DI Leach 4.95 g 08/07/23 15:55 KS **EET MID**

Client Sample ID: SW03 Lab Sample ID: 890-4976-13 Date Collected: 07/20/23 13:30 Matrix: Solid

59619

08/08/23 10:58 CH

5

Date Received: 07/21/23 09:13

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	58735	07/28/23 13:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 01:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	59186	08/03/23 09:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/05/23 06:10	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58383	07/24/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1			58469	07/25/23 16:45	CH	EET MID

Client Sample ID: FS09 Lab Sample ID: 890-4976-14 Date Collected: 07/20/23 13:55

Date Received: 07/21/23 09:13

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	58735	07/28/23 13:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 02:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MID

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EET MID

Eurofins Carlsbad

Matrix: Solid

Released to Imaging: 2/8/2024 2:10:25 PM

Job ID: 890-4976-1

SDG: 03C1558255

Matrix: Solid

Client: Ensolum

Project/Site: Remuda 500 Tank Battery

Client Sample ID: FS09 Lab Sample ID: 890-4976-14 Date Collected: 07/20/23 13:55 **Matrix: Solid**

Date Received: 07/21/23 09:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	59186	08/03/23 09:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/05/23 06:30	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58383	07/24/23 14:48	KS	EET MID
Soluble	Analysis	300.0		5			58469	07/25/23 16:50	CH	EET MID

Client Sample ID: SW04 Lab Sample ID: 890-4976-15

Date Collected: 07/20/23 14:10 Date Received: 07/21/23 09:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	58735	07/28/23 13:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 02:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	59186	08/03/23 09:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/05/23 06:55	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58383	07/24/23 14:48	KS	EET MID
Soluble	Analysis	300.0		5			58469	07/25/23 16:55	CH	EET MID

Client Sample ID: BH03 Lab Sample ID: 890-4976-16 Date Collected: 07/20/23 14:25 **Matrix: Solid**

Date Received: 07/21/23 09:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58735	07/28/23 13:24	EL	EET MI
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 02:54	AJ	EET MI
Total/NA	Analysis	Total BTEX		1			58870	07/31/23 14:05	AJ	EET MI
Total/NA	Analysis	8015 NM		1			59455	08/07/23 09:40	SM	EET MI
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	59186	08/03/23 09:25	TKC	EET MII
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/05/23 07:18	SM	EET MII
Soluble	Leach	DI Leach			5.04 g	50 mL	58383	07/24/23 14:48	KS	EET MI
Soluble	Analysis	300.0		5			58469	07/25/23 17:00	CH	EET MI

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4976-1
Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-23-26	06-30-24
The following analyte the agency does not	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
5 ,				
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

2

4

6

0

10

11

13

14

Method Summary

Client: Ensolum

Project/Site: Remuda 500 Tank Battery SDG: 03C1558255

Job ID: 890-4976-1

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: Remuda 500 Tank Battery

Job ID: 890-4976-1

SDG: 03C1558255

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4976-1	FS03	Solid	07/20/23 11:25	07/21/23 09:13	2.5
890-4976-2	FS06	Solid	07/20/23 11:30	07/21/23 09:13	2.5
890-4976-3	FS07	Solid	07/20/23 11:35	07/21/23 09:13	2.5
890-4976-4	FS08	Solid	07/20/23 11:40	07/21/23 09:13	2.5
890-4976-5	FS02	Solid	07/20/23 12:05	07/21/23 09:13	3.5
890-4976-6	FS11	Solid	07/20/23 12:20	07/21/23 09:13	2.5
890-4976-7	FS12	Solid	07/20/23 12:25	07/21/23 09:13	2.5
890-4976-8	BH01	Solid	07/20/23 12:30	07/21/23 09:13	0.5
890-4976-9	BH01A	Solid	07/20/23 12:45	07/21/23 09:13	3
890-4976-10	BH02	Solid	07/20/23 12:55	07/21/23 09:13	0.5
890-4976-11	BH02A	Solid	07/20/23 13:10	07/21/23 09:13	3
890-4976-12	FS10	Solid	07/20/23 13:20	07/21/23 09:13	3.5
890-4976-13	SW03	Solid	07/20/23 13:30	07/21/23 09:13	0 - 3
890-4976-14	FS09	Solid	07/20/23 13:55	07/21/23 09:13	4
890-4976-15	SW04	Solid	07/20/23 14:10	07/21/23 09:13	0 - 3
890-4976-16	BH03	Solid	07/20/23 14:25	07/21/23 09:13	3

Circle Method(s) and Metal(s) to be

otal 200.7 / 6010

200.8 / 60:

BHOZ

BHO

BHOIA

FSII

FS02 FSOR F507

F306 503

tice: Signature of this document and relinquis

service. Eurofins Xenco will be liable only for Eurofins Xenco. A minimum charge of \$85.00 Relinquished by: (Signature)

eurofins Xenco **Environment Testing**

Project Manager:

Ben Belill

Ensolum

Carlsbad, NM 88220

City, State ZIP:

Carlsbad, NM 88220 3104 E. Green St

Reporting: Level II 🗌 Level III 🗎 PST/UST 📗 TRRP 📗

Level IV

State of Project:

Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order Comments

www.xenco.com

9

Company Name: Bill to: (if different)

XTO Energy Garrett Green

3122 National Parks Hwy

303-887-2946

Chain of Custody

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

000			City Comes	!	-]]	
		Email:	Email: Garrett.Green@ExxonMobil.com	reen	Exxo	nMob	il.com		Delivera	Deliverables: EDD L	ADaPI L	Otner:
Tank) Tank Battery	Turn	Turn Around						ANALYSIS REQUEST		Pres	Preservative Codes
558255		✓ Routine	Rush		Pres.						None: NO	DI Water: H ₂ O
		Due Date:						_			Cool: Cool	MeOH: Me
Whitman	an	TAT starts the day received by	e day receiv	ed by							HCL: HC	HNO3: HN
)	the lab, if received by 4:30pm	eived by 4:3	Opm	8						H ₂ S0 ₄ : H ₂	NaOH: Na
×.	Yes No	Wet Ice:	(Yes)	o o	eter	0)					H ₃ PO ₄ : HP	
	Thermometer ID:	Ö N	M 1	מ	ram	000.					NaHSO4: NABIS	IABIS
1	Correction Factor:	ctor	0	21.	Pa	A: 3					Na ₂ S ₂ O ₃ : NaSO ₃	laSO ₃
_	Temperature Reading	Reading:	U.U			(EP			890-4976 Chain of Custody	ly	Zn Acetate	Zn Acetate+NaOH: Zn
-	Corrected Temperature:	nperature:	Q.0			DES	15)	021)			NaOH+Asc	NaOH+Ascorbic Acid: SAPC
Watrix	Date	Time	Depth	Grab/	Cont	HLOR	PH (80	TEX (8			Sam	Sample Comments
7	7/reles	1125	2,5	7	-	- 0					Incident ID:	O.
- \	-	1130	2.5	7							ηA	nAPP2317850727
		1135	2.5	7	-							
		1140	2,5	0	_						Cost Center:	ter:
		1205	3.5	0	-							1067601001
		1220	2.5	0	1						AFE:	
		1225	2.5	0	1							
		1230	5,	0	1							
		1245	3	0	_							
_	1	255	,5	3	_							
20:	8R	8RCRA 13PPM	M Texas 11		Al Sb	As E	As Ba Be B		Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K	Se Ag	a Sr	TI Sn U V Zn
analyzed	ed	TCLP / SPLP 6010: 8RCRA Sb As Ba Be	LP 6010	880	RA	Sb As	Ba	Be Co	Cd Cr Co Cu Pb Mn Mo Ni Se Ag	TI U	Hg: 1631/245.1/7470/7471	70 /7471
hment of the cost	samples constit	tutes a valid pur	chase order i	rom clie	nt compor any lo	pany to	Eurofin	Xenco, es incu	thment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 that control is an applicable of 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 that is a control to 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 to 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 to 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 to 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 to 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.	andard terms and conditio umstances beyond the con	ns trol otiated.	
	Deceived	Paceived by: (Signature)	ire)			Date/Time	Time		Relinguished by: (Signature)	Received by: (Signature)	signature)	Date/Time
1								-				

SAMPLE RECEIPT

Samples Received Intact:

Cooler Custody Seals:

Yes Yes No

S O

ample Custody Seals:

otal Containers:

Sample Identification

Sampler's Name:

Connor

Project Location:

Project Number:

roject Name:

Remuda 50

03C1

Phone: City, State ZIP: Address: Company Name:

Work Order No:

Revised Date: 08/25/2020 Rev. 2020.2

eurofins Kenco **Environment Testing**

Sampler's Name:

Connor Whitman

TAT starts the day received by the lab, if received by 4:30pm

Project Location:

Project Number: Project Name: Phone:

303-887-2946 Carlsbad, NM 88220 3122 National Parks Hwy

Email: | Garrett.Green@ExxonMobil.com

City, State ZIP:

Carlsbad, NM 88220 3104 E. Green St. XTO Energy Garrett Green

Company Name: Bill to: (if different)

Remuda 500 Tank Battery

03C1558255

✓ Routine

Rush

Turn Around

ANALYSIS REQUEST

Deliverables: EDD

ADaPT []

Other:

Preservative Codes

DI Water: H₂O

HCL: HC

Cool: Cool None: NO

MeOH: Me HNO₃: HN NaOH: Na

City, State ZIP:

Project Manager:

Ben Belill

Company Name: ddress:

Ensolum

Chain of Custody

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

	2	2	2
www.xenco.com	Page	2	01
Work Order Comments	mments		
Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	ields 🗌 R	RC S	uperfun
 State of Project:			
Reporting: Level II Level III PST/UST TRRP Level IV	UST 🛮 T	RRP	Level I

Paris Date 08/25/2020 Pay 2020 2		3	6					
			31-23-13	7:6	P	7) 201.		CATA
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	re)	Recoved by: (Signature)	Recon	ature)	Relinquished by: (Signature)
	ors. It assigns standard terms and conditions are due to circumstances beyond the control erms will be enforced unless previously negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	npany to Eurofins Xenco losses or expenses incu ubmitted to Eurofins Xen	ase order from client con any responsibility for any e of \$5 for each sample s	stitutes a valid purch d shall not assume project and a charg	of samples cons ost of samples an applied to each	t and relinquishment liable only for the co arge of \$85.00 will b	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontract 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 losse of Eurofins Xenco, will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These to
7470 / 7471	Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr II Sn O V Zn Mo Ni Se Ag TI U Hg: 1631/245.1/7470 /7471	RA 13PPM Texas 11 ALS b As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	Sb As Ba Be B C	8RCRA 13PPM Texas 11 Al Sb As Ba Be B TCLP/SPLP 6010: 8RCRA Sb As Ba Be	TCLP / SPI		200.8 / 6020: al(s) to be anal	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
								Ш
			1					
			2					
	AFE:			2 2	1425			BHO3
1067601001				0-3 C	1410			HOMS
nter:	Cost Center:			4 0 1	1355			F509
				0-3 C 1	1330			5W03
nAPP2317850727				3.5 6 1	1320			F3 0
Ö	Incident ID:			- S	1310	7/20/23	5	BHC2A
Sample Comments	Sar		TPH (86	Depth Grab/ # of Comp Cont	Time Sampled	Date	on Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC	NaOH+A		015)		emberature:	Corrected Temperature		Total Containers:
Zn Acetate+NaOH: Zn	Zn Acetai				Reading:	Temperature Reading:	Yes No N/A	Sample Custody Seals:
NaSO ₃	Na ₂ S ₂ O ₃ . NaSO ₃		PA:	P	actor	Correction Factor	YES NO NIA	Cooler Custody Seals:
NABIS	NaHSO ₄ : NABIS		3000	arar	יל ק ק	Thermomoter ID:	Yes No	Samples Received Intact:
Ū	H₃PO₄: HP		0.0)	Yes No	Wet to:	Yes No	Temp Blank:	SAMPLE RECEIPT
NaOH: Na	H ₂ S0 ₄ : H ₂			the lab, if received by 4:30pm	the lab, if rece			PO#

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4976-1

SDG Number: 03C1558255

Login Number: 4976 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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8/8/2023 (Rev. 1)

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4976-1 SDG Number: 03C1558255

Login Number: 4976 **List Source: Eurofins Midland** List Creation: 07/24/23 08:33 AM List Number: 2

Creator: Rodriguez, Leticia

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

<6mm (1/4").



APPENDIX E

NMOCD Notifications

From: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Sent: Friday, July 14, 2023 9:44 AM

To: Collins, Melanie <melanie.collins@exxonmobil.com>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD

<Robert.Hamlet@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Updated XTO - Sampling Notification (Week of 7/17/23 - 7/21/23)

External Email - Think Before You Click

Melanie,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. The OCD has received your notification. When reporting sampling at multiple locations it is required to provide and date and time for each location. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon ● Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http://www.emnrd.nm.gov



From: Collins, Melanie < <u>melanie.collins@exxonmobil.com</u>>

Sent: Thursday, July 13, 2023 2:56 PM

To: Enviro, OCD, EMNRD OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>;

Harimon, Jocelyn, EMNRD < <u>Jocelyn.Harimon@emnrd.nm.gov</u>>

Cc: spills@slo.state.nm.us; Green, Garrett J spills@slo.state.nm.us; Garrett J spills@slo.state.nm.us; Garrett J spills@slo.state.nm.us; Garrett J spills@slo.state.nm.us; Garrett S spills@slo.state.nm.us; Green, Garrett S <a href="mailto:spills@slo.s

Subject: [EXTERNAL] Updated XTO - Sampling Notification (Week of 7/17/23 - 7/21/23)

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 sites listed below for the week of July 17, 2023.

Tuesday 7/18/23

- PLU 183Q / nAPP2315133557
- Remuda 500 Tank Battery / nAPP2317850727 (SLO)

Wednesday 7/19/23

- PLU 224 / nAPP2310050120
- Remuda 500 Tank Battery / nAPP2317850727 (SLO)

Thursday 7/20/23

- PLU 224 / nAPP2310050120
- James Ranch Unit 19 Battery / nAPP2317142256 (SLO)

Friday 7/21/23

• James Ranch Unit 19 Battery / nAPP2317142256 (SLO)

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

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

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

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 265789

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	265789
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests final remediation for Incident Number NAPP2317850727 until the site is reconstructed, and/or the well pad is abandoned. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The area requested for deferral is in the immediate vicinity of production equipment and flowlines on the caliche well pad, where remediation would require a major facility deconstruction (Figure 4). The area has been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	2/8/2024