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	NAPP2303854000
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy				OGRID 5	OGRID 5380	
Contact Name Garrett Green			Contact Te	Contact Telephone 575-200-0729		
Contact email garrett.green@exxonmobil.com			Incident #	(assigned by OCD)		
		3104 E. Greene St		w Mexico, 88220		
			Location	of Release So	NII WAA	
22	26004		Location	of Release Sc		
Latitude32.	26994		aup or a	Longitude _	-103.93624	
			(NAD 83 in dec	cimal degrees to 5 decim	val places)	
Site Name I	Remuda 500			Site Type	Tank Battery	
Date Release	Discovered	01/28/2023		API# (if app	licable)	
	1					
Unit Letter	Section	Township	Range	Coun	ty	
O	25	23S	29E	Edd	y	
	Materia		Nature and	l Volume of I	justification for the volumes p	
Crude Oi		Volume Release			Volume Recovered (b)	
× Produced	Water	Volume Release	ed (bbls) 9.44		Volume Recovered (b)	ols) 0.00
		in the produced	tion of total dissolv water >10,000 mg	` '	Yes No	
☐ Condensa	ite	Volume Release	ed (bbls)		Volume Recovered (b)	ols)
Natural Gas Volume Released (Mcf)			Volume Recovered (M	lcf)		
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recov	vered (provide units)		
Cause of Rel	ease A need contrac	le valve broke on t tor has been retain	the discharge line, led for remediation	releasing fluids to parposes.	l pad surface. No fluids w	ere recovered. A third-party

Received by OCD: 4/26/2023 10:07/32 PM State of New Mexico
Page 2 Oil Conservation Division

Pa	ige	2 eoj	f 1	29

Incident ID	NAPP2303854000
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible part	y consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A		
☐ Yes 🗷 No			
If YES, was immediate no N/A	otice given to the OCD? By whom? To wh	om? Wh	en and by what means (phone, email, etc)?
	Initial Ro	espons	e
The responsible p	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 enviro	onment.
▼ Released materials has	ave been contained via the use of berms or d	ikes, abso	orbent pads, or other containment devices.
➤ All free liquids and re	ecoverable materials have been removed and	d manage	d appropriately.
	d above have <u>not</u> been undertaken, explain v	why:	
NA			
has begun, please attach	a narrative of actions to date. If remedial	efforts ha	n immediately after discovery of a release. If remediation we been successfully completed or if the release occurred ch all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig addition, OCD acceptance of and/or regulations.	required to report and/or file certain release noti- ment. The acceptance of a C-141 report by the C ate and remediate contamination that pose a thre f a C-141 report does not relieve the operator of	fications are CD does not to groun responsibil	knowledge and understand that pursuant to OCD rules and ad perform corrective actions for releases which may endanger of relieve the operator of liability should their operations have dwater, surface water, human health or the environment. In ity for compliance with any other federal, state, or local laws
Printed Name: Garrett G	reen	Title:	SSHE Coordinator
Signature:	At Sum		02/07/2023
email: garrett.green@exx	sonmobil.com	Telepho	one: <u>575-200-0729</u>
OCD Only			
Received by:	elyn Harimon	Date:	02/07/2023

Location:	Remuda 500 T	В
Spill Date:	1/28/2023	
	Area 1	·
Approximate A	rea =	21197.00 sq. ft.
Average Satura	tion (or depth) of spill =	1.00 inches
Average Porosi	ty Factor =	0.03
	VOLUME OF LEAK	
Total Crude Oil	=	0.00 bbls
Total Produced	Water =	9.44 bbls
	TOTAL VOLUME OF	LEAK
Total Crude Oil	=	0.00 bbls
Total Produced Water = 9.44 bb		9.44 bbls
	TOTAL VOLUME RECO	VERED
Total Crude Oil	=	0.00 bbls
Total Produced	Water =	0.00 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 183791

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	183791
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	2/7/2023

f New Mexico Incident ID NAPP2303854000

Incident ID	NAPP2303854000
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (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?	☐ 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 vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil	
Characterization Report Checklist: Each of the following items must be included in the report.		
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well \infty Field data 	ls.	
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		
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		
☐ Laboratory data including chain of custody		

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.

Received by OCD: 4/26/2023 1:07:32 PM Form C-141 State of New Mexico Oil Conservation Division Page 4

Page 6 of	<u>129</u>
NAPP2303854000	

Incident ID	NAPP2303854000
District RP	
Facility ID	
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: _Environmental Coordinator									
Signature: Sath Sur	Date:4/26/2023									
email: _garrett.green@exxonmobil.com	Telephone:575-200-0729									
OCD Only										
Received by: Jocelyn Harimon	Date: 04/26/2023									

Page 7 of 129

Incident ID NAPP2303854000
District RP
Facility ID
Application ID

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

☐ A scaled site and sampling diagram as described in 19.15.29	.11 NMAC
Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	OC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: _Garrett Green	Title: _Environmental Coordinator
Printed Name: _Garrett Green	Date:4/26/2023
email:garrett.green@exxonmobil.com	Telephone:575-200-0729
OCD Only	
Received by: Jocelyn Harimon	Date: <u>04/26/2023</u>
	y of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.
Closure Approved by:	Date:8/28/2023
Printed Name: Jocelyn Harimon	Title: Environmental Specialist



April 26, 2023

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

Re: Closure Request

Remuda 500 Tank Battery

Incident Number NAPP2303854000

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document assessment and soil sampling activities at the Remuda 500 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 at the Site. Based on Site assessment activities and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation activities that have occurred and requesting no further action for Incident Number NAPP2303854000.

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 (32.26994°, -103.93624°) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (SLO).

On January 28, 2023, a needle valve broke on a produced water discharge line resulting in the release of approximately 9.44 barrels (bbls) of produced water onto the surface of the well pad. No fluids were recovered. XTO submitted a Release Notification Form C-141 (Form C-141) on February 7, 2023. The release was assigned Incident Number NAPP2303854000.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to determine 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. Potential site receptors are identified on Figure 1.

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 0.33 miles northwest of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-04494 was drilled to a depth of 105 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 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.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 88220 | ensolum.com

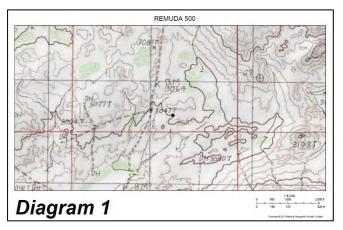
XTO Energy, Inc Closure Request Remuda 500 Tank Battery

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).

Watercourse Survey

The closest potential surface water or significant watercourse to the Site is a seasonal dry wash, located approximately 278 feet south of the Site. Because the watercourse appeared in online databases to flow

through a pipeline right-of-way (Figure 2), Ensolum personnel conducted a field investigation to confirm the presence or absence of the significant watercourse. Field verification is sometimes necessary to measure the distance of the feature from the release extent and to confirm the feature complies with the definition of a significant watercourse per Subsection P of 19.15.17.7 NMAC. Specifically, the definition in Subsection P of 19.15.17.7 NMAC requires a defined bed and bank and either named or identified by a dashed blue line on United States Geological Survey (USGS) 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank of such watercourse.



The feature is not identified by a dashed blue line on the current USGS 7.5-minute quadrangle map. The proposed watercourse is identified as a dashed black line (Diagram 1). Additionally, the surface feature does not appear to reveal visual properties of a next lower tributary that would connect to a significant watercourse, instead, connecting with another feature and apparently ending (Figure 2, Photo 8). No feature with a defined bed or bank was observed within 300 feet of the release during ground truthing, which included a pedestrian survey of the area south of the Site. Only a few faint erosional paths without defined banks aligned with the topographic gradient. Photos from the survey are presented in Figure 2.

Based on the observations presented, there are no significant watercourses located within 300 feet of the Site location per the definition of a significant watercourse in Subsection P of 19.15.17.7 NMAC. Instead, only a few faint erosional channels formed by drainage of water during storm events. The faint conduits are intercepted by a pipeline right-of-way.

Based on the results of the Site Characterization, and the absence of a significant watercourse to the south, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

Page 2



XTO Energy, Inc Closure Request Remuda 500 Tank Battery

SITE ASSESSMENT ACTIVITIES

On March 13, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Thirteen delineation soil samples (SS01 through SS13) were collected within and around the release extent at a depth of 0.5 feet bgs. Soil samples SS01 through SS08 were collected within the release extent and soil samples SS09 through SS13 were collected around the release extent in order to confirm the lateral definition of the release. In order to fully define the eastern extent of the release extent, an additional delineation soil sample (SS14) was collected at 0.5 feet bgs on April 7, 2023. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 3. Photo documentation was conducted during the Site visits and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they were collected may not have equilabrated to 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

DELINEATION AND SURFACE SCRAPING ACTIVITIES

On March 23, 2023, Ensolum personnel returned to the Site to complete additional delineation. Eight potholes (PH01 through PH08) were advanced by use of heavy equipment to assess the vertical extent of the release. Delineation potholes PH01 through PH08 were advanced in the vicinity of SS01 through SS08, respectively. Discrete delineation soil samples were collected in each pothole at the terminal depth of 2 feet bgs. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs and are included in Appendix C. All delineation soil samples were field screened, handled, and analyzed as described above. Following the delineation activities, surface scraping was completed via heavy equipment to address visible staining within the release extent. The soil was transported and properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico. The soil sample locations are depicted on Figure 3.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated COC concentrations for all delineation soil samples were in compliance with the Site Closure Criteria, however, soil sample results from SS11, collected east of the release extent, contained elevated chloride concentrations that exceeded the strictest Table I Closure Criteria. Soil sample results from SS14 indicated COC concentrations were below the strictest Table I Closure Criteria, which fully defines the eastern extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil from the January 28, 2023 release of produced water. Delineation activities were completed and laboratory analytical results indicated COC concentrations for all delineation soil samples were in compliance with the Closure Criteria. Additionally, the release is fully defined laterally

Page 3



XTO Energy, Inc Closure Request Remuda 500 Tank Battery

to the strictest Table I Closure Criteria with soil samples SS09, SS10, and SS12 through SS14. Surface scraping was completed to remove visible staining within the release extent, which includes the areas of where elevated chloride concentrations existed in soil samples SS01 through SS08.

Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. Based on laboratory analytical results compliant with Closure Criteria, no further remediation appears to be required. As such, XTO respectfully requests closure for Incident Number NAPP2303854000.

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

cc: Garrett Green, XTO Shelby Pennington, XTO

Delill

SLO

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

Principal

Ashley L. Ager

Appendices:

Figure 1 Site Receptor Map
Watercourse Survey Map

Figure 3 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

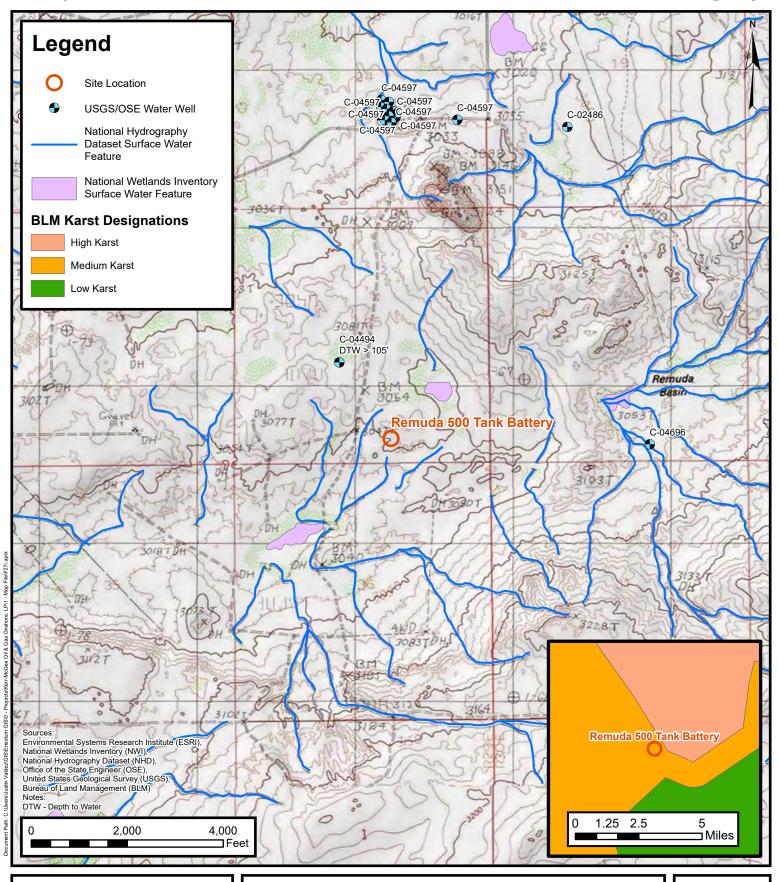
Appendix C Lithology Soil Sampling Logs

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

Appendix E NMOCD Notifications



FIGURES

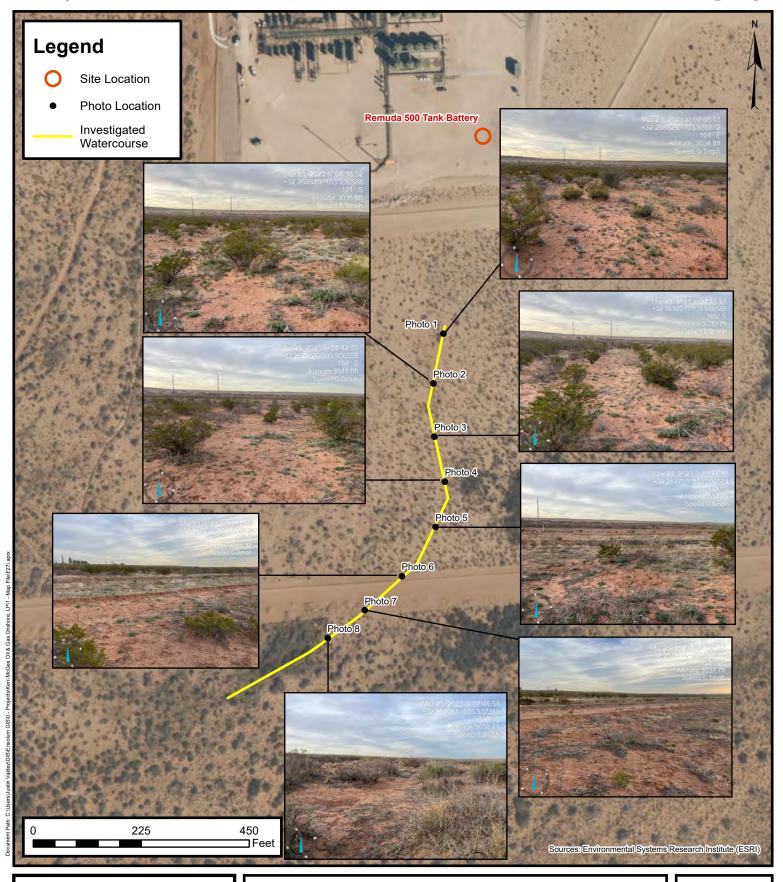




Site Receptor Map

XTO Energy, Inc Remuda 500 Tank Battery Incident Number: NAPP2303854000 Unit O, Sec 25, T23S, R29E Eddy County, New Mexico FIGURE

1

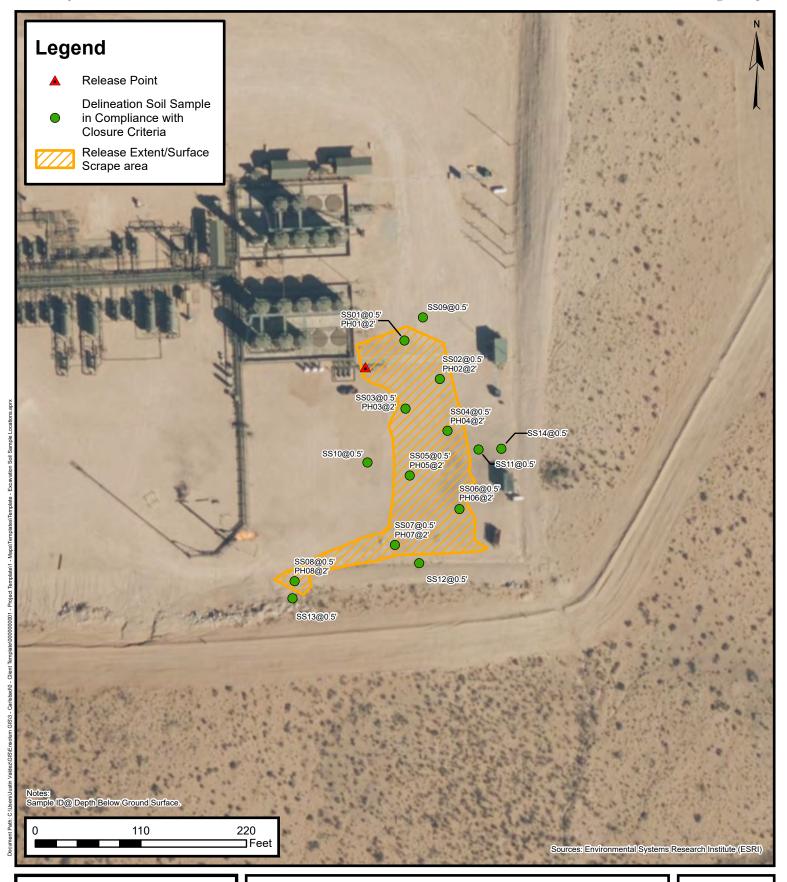




Significant Watercourse Survey

XTO Energy, Inc Remuda 500 Tank Battery Incident Number: NAPP2303854000 Unit O, Sec 25, T23S, R29E Eddy County, New Mexico FIGURE

2





Delineation Soil Sample Locations

XTO Energy, Inc Remuda 500 Tank Battery Incident Number: NAPP2303854000 Unit O, Sec 25, T23S, R29E Eddy County, New Mexico FIGURE

3



TABLES



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 C	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delir	neation Soil Sai	nples				
SS01	03/13/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	7,130
PH01	03/23/2023	2	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	1,990
SS02	03/13/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,350
PH02	03/23/2023	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	275
SS03	03/13/2023	0.5	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	3,600
PH03	03/23/2023	2	< 0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	243
SS04	03/13/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	3,790
PH04	03/23/2023	2	<0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	153
SS05	03/13/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	1,540
PH05	03/23/2023	2	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	183
SS06	03/13/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,390
PH06	03/23/2023	2	<0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	381
SS07	03/13/2023	0.5	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,730
PH07	03/23/2023	2	< 0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	371
SS08	03/13/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	167
PH08	03/23/2023	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	1,210
SS09	03/13/2023	0.5	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.95
SS10	03/13/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	63.3
SS11	03/13/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,700
SS12	03/13/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	124
SS13	03/13/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	37.4
SS14	04/07/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	393

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

Ensolum 1 of 1



APPENDIX A

Referenced Well Records

	119	<u> </u>				P USA		BH or PH Name: BH01 (C-04494)	Date: 11/18/2020, 12/02/20, 01/05/2021		
				5 Car	508 West States	Stevens S	Street			Remuda North 25 Observation Well	
				Oui	isbad, NC	VV IVICAICC	00220		RP or Incident Numbe LTE Job Number:	TE012919039	
		LITH	OLOG	SIC / SOIL	SAMPL	ING LO	G		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic	
Lat/Lo	ng:				Field Scre	ening:			Hole Diameter:	Total Depth:	
Comm	nents:								6.25", 4.25"	105'	
Litholo	ogy remarks	s only. No	field s	creenings: D	ry hole	1	1	1			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Sample # Depth (ft bgs) Symbol Symb						Lithology/Remarks		
D			Ν		1	1	SP-SC				
					- - -	2			ND, dry, brown, poorl ots, no stain, no odor	y graded, fine grain, Clay (10% clay),	
D			N		- - -	4 5	CCHE			brown, poorly graded, very fine - fine bebbles, no stain, no odor	
					- - -	6 7			ALICHE, dry, light brown-tan, poorly consolidated, subdiche pebbles and gravel, very silty, gradational		
					-	8		9-14' : Al	oundent sub-round ca	aliche gravel	
					_			14-19' : \$	Some sub-angular ca	liche gravel and pebbles	
					_	9			_	r caliche gravel and pebbles,	
					<u> </u>	10		moderate	ely consolidated		
					_	11					
					_	12					
					_	13					
					_	14					
					_	15					
					_	16					
					_	17					
					_	18					
					_	19					
					_	20					
					-	21					
					-	22					
					_	23					
					-	24					
D			Ν		-	25	CL				

Lat/Lo) OLOG	Cal GIC / SOII	508 West Isbad, Ne	.ING LO		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"	Remu	Date: 11/18/2020, 12/02/20, 01/05/2021 da North 25 Observation Well TE012919039 Method: Hollow Stem Auger, sonic Total Depth: 105'	
	Lithology remarks only. No field screenings: Dry hole										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Litho	ology/R	Remarks
D			Z			26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	DOL	consolid no odor, 34-39': features At 39': I 39-42': consolid odor, lig 42-45': (>1mm) At 48': 3	ated, cohesive, trace sharp transition Sub-angular calcium (1-3mm), tan-light brace air rotory (4.25" DOLOMETIC LIMES lated, with dissolution to moderate reactions are light gray dolor stop due to air rotory. Advance borehole willTE, white, well consolution sharp and the stop due to some light gray dolor stop due to air rotory.	carbor carbor rown TONE, a featur on with mite wince with new ith new	th trace dissolution features

									BH or PH Name:	Date:
			7		WS	PUSA				
				-			Stroot		BH01 (C-04494) Site Name: Remuda	11/18/2020. 12/02/2020, 1/5/2021 a North 25 Observation Well
				Car	08 West S Isbad, Ne	stevens s w Mexico	88220		RP or Incident Number:	a North 25 Observation Well
				Gai	233,170				LTE Job Number: TE0129190	39
		LITHO	വ വദ	IC / SOIL	SAMPI	INGLO	G		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic
Lat/Lo	ua.		OLOG	10 / 0011	Field Scre				Hole Diameter:	Total Depth:
									6.25", 4.25"	105'
Comments: Lithologic log only, no field screenings										
Littioid	igic log off	ly, no neic	3 301661	iiigs			~			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology	ı/Remarks
					<u> </u>	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	e, trace orange oxidation staining ain, no odor
					_	59				rystalline dolomitic limestone
					- -	60 61				ine veins (<1mm), pale green-
						62			•	
					- - -	63		high pla		dish brown, poorly consolidated, nt coarse crystalline gypsum, few
					- -	64		69-81' :	GYPSUM with Anhydrite,	, dry, greenish gray, some pale
			N		-	65	011.0	yellow, v	veil consolidated, finr cry	stalline, 20% anhydrite, no stain,
D			IN		-	66	CH-S			
					-	67				
					_	68				
D			N		_	69	GYP	-		
U			IN		_	70				
						71				
						72				
					-	73				
					-	74				
					<u> </u>	75				

									BH or PH Name:	Date:
		П	7		WS	SP USA			BH01 (C-04494)	11/18/2020. 12/02/2020, 1/5/2021
				5	508 West	Stevens S	Street			da North 25 Observation Well
				Car	Isbad, Ne	w Mexico	88220		RP or Incident Number:	
									LTE Job Number: TE012919	039
		LITH	OLOG	IC / SOIL	SAMPL	ING LO	G		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic
Lat/Lo	ng:				Field Scre	eening:			Hole Diameter: 6.25", 4.25"	Total Depth: 105'
Comm	nents: ogic log on	ly, no field	d scree	nings	•					
							×			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litholog	y/Remarks
						76				e, dry, greenish gray, some pale ystalline, 20% anhydrite, no stain,
					-	77		no odor	eli corisolidated, ilili ci	ystamine, 2070 armyunte, no stam,
					-	78				rk reddish brown, moderately
					-	79		gypsum	nclusions, no stain, no	
					-	80			: greenish-gray well cor anhydrite stringer	nsolidated coarse crystalline
D			N		-	81 82	CH-S	90-98' : \$	Some fine grain brown s	sand
					-	83		At 97' : d	ark gray-gray gyspum s	stringer (4cm)
					-	84				gray, some brown, dry, well
					-	85			ated, fine-coarse crysta ' : Sandy SILTSTONE,	lline, no stain, no odor moist, brown, some gray-dark
					-	86		gray, poo	orly consolidated, 20% v	very fine grain sand, no stain, no
					-	87				
					-	88				
					-	89				
					-	90				
					-	91				
					-	92				
					-	93				
					-	95				
					-	96				
					-	97				
7			N.I		-	98	GYP			
D			N		-	99	GIP			
D			Ν			100	ML-S			

									BH or PH Name:	Date:	
		ЧП			WS	P USA			BH01 (C-04494)	11/18/2020. 12/02/2020, 1/5	5/2021
,				F.	i08 West 9	Stevens S	Street			Remuda North 25 Observation Well	
				Car	08 West S Isbad, Ne	w Mexico	88220		RP or Incident Number		
									LTE Job Number: TE0		
		LITH	OLOG	IC / SOII	SAMPL	ING LO	G		Logged By BB, LAD, F	Method: Hollow Stem Auger	r, sonic
Lat/Lo					Field Scre	ening:			Hole Diameter: 6.25", 4.25"	Total Depth: 105'	
Comn Lithol	nents: ogic log on	ly, no field	d scree	nings							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/Remarks		
					- -	101	ML-S			NE, moist, brown, some gray-0 20% very fine grain sand, no sta	
					- - -	103			Thin (<1mm) lamii ringer (4cm thick)	nated black/gray well consolida	ited
D			N		- -	105 106		TD @ 10	05' bgs (1/5/2021)		
					-	107					
					- - -	108					
					- -	110					
					- -	112					
					- -	113 114					
					- - -	115					
					- -	116					
					- -	117 118					
					-	119					
					-	120					
					-	121 122					
					- -	123					
					-	124					
1					-	125					



APPENDIX B

Photographic Log



Photographic Log
XTO Energy, Inc
Remuda 500 Tank Battery
Incident Number NAPP2303854000





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

View: North

Photograph 2 Date: 3/13/2023 Description: Site assessment, release extent area View: South





Photograph 3 Date: 3/23/2023 Description: Delineation activities, area of PH07

View: West

Photograph 4 Date: 3/23/2023

Description: Surface scraping activities

View: North



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: PH01	Date: 3/23/2023
	7			•			B .4	Site Name: Remuda 500	
			N	3	OL	_ U	V	Incident Number: NAPP2303	3854000
								Job Number: 03C1558187	
	ı	ITHOLO	OGIC	C / SOIL S	AMPLING	LOG		Logged By: MR	Method: Backhoe
Coord	inates: 32							Hole Diameter: NA	Total Depth: 2'
Comm	ents: Field	d screenii	ng co	nducted wi			PID for chloride and vapor, rector is included in all chloride		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions
M D	8,164 1,993 1,310	0.2 0.6 0.8	Z Z Z	SS01 PH01	0.5 - - - - - 2 -	0 - - 1 - - 2 TD	CCHE	sub-rounded grains, 0.5-2' CALICHE, red-bro	orly sorted, no stain, no

								Sample Name: PH02	Date: 3/23/2023
	7			•				Site Name: Remuda 500	2010: 0/20/2020
			N	3	OL	_ U	V	Incident Number: NAPP2303	3854000
								Job Number: 03C1558187	
	ı	LITHOLO	OGIC	: / SOIL S	AMPLING	LOG		Logged By: MR	Method: Backhoe
Coord	inates: 32							Hole Diameter: NA	Total Depth: 2'
Comm	ents: Field	d screenii	ng co	nducted wi			PID for chloride and vapor, rector is included in all chloride		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions
M D	3,421 207	0.2	N	SS02	0.5 <u>-</u>	0 - - 1	CCHE	sub-rounded grains, 0.5-2' CALICHE, mediur	m brown, poorly sorted, stained, no odor, moist. m brown, sub-rounded d, no stain, no odor, dry.
D	207	1.3	N	PH02	- - 2	- ¹ - - <u>2</u> TD			
						_ ID		Total Depth @ 2 ft bgs.	

							Sample Name: PH03	Date: 3/23/2023
						B .4	Site Name: Remuda 500	Date: 3/23/2023
		N	3	OL	J	V	Incident Number: NAPP2303	8854000
							Job Number: 03C1558187	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	ITHOLO	GIC	/ SOIL S	AMPLING	LOG		Logged By: MR	Method: Backhoe
Coordinates: 32				AIVII LIIVO			Hole Diameter: NA	Total Depth: 2'
Comments: Fiel	d screenin	ıg coı	nducted wi			PID for chloride and vapor, rector is included in all chloride	espectively. Chloride test	
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions
M 5,964 D 207	0.2	N N	SS03	0.5 _ - -	[0 - - - 1	CCHE	sub-rounded grains, 0.5-2' CALICHE, mediur	m brown, poorly sorted, stained, no odor, moist. m brown, sub-rounded d, no stain, no odor, dry.
D 207	0.5	N	PH03	2	2 TD		Total Depth @ 2 ft bgs.	

								Sample Name: PH04	Date: 3/23/2023
	7			•			B .4	Site Name: Remuda 500	
			N	3	OL	_ U	V	Incident Number: NAPP2303	854000
								Job Number: 03C1558187	
	ı	ITHOLO	ogic	C / SOIL S	AMPLING	LOG		Logged By: MR	Method: Backhoe
Coord	inates: 32.							Hole Diameter: NA	Total Depth: 2'
Comn	nents: Field	d screenii	ng co	nducted wi			PID for chloride and vapor, rector is included in all chloride		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	_	c Descriptions
M D	4,267 <173.6	0.3	N N	SS04	0.5 <u>-</u>	0	CCHE	sub-rounded grains, 0.5-2' CALICHE, mediur	n brown, poorly sorted, stained, no odor, moist. n brown, sub-rounded l, no stain, no odor, dry.
D	<173.6	0.7	N	PH04	2 _			Total Depth @ 2 ft bgs.	

								Sample Name: PH05	Date: 3/23/2023
					~ I		B.4		Date: 3/23/2023
			N	5	U	_ U	M	Site Name: Remuda 500 Incident Number: NAPP2303	2854000
						Job Number: 03C1558187			
		ITHOL	JGIO	' / SOIL S	AMPLING	Logged By: MR	Method: Backhoe		
Coord	inates: 32.				AIVII LIIVO	Hole Diameter: NA	Total Depth: 2'		
Comm	nents: Field	d screenii	ng co	nducted wi				PID for chloride and vapor, rector is included in all chloride	espectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions
M D	1,181 246.4	0.0	Z Z	SS05	0.5 <u>-</u>	0 - - _ 1	CCHE	sub-rounded grains, 0.5-2' CALICHE, mediur	m brown, poorly sorted, stained, no odor, moist. m brown, sub-rounded d, no stain, no odor, dry.
D	<173.6	0.6	N	PH05	2 <u>-</u> -	- - 2 _ TD		Total Depth @ 2 ft bgs.	

								Sample Name: PH06	Date: 3/23/2023	
	7			•			B .4	Site Name: Remuda 500	24(6) 9/29/2020	
ENSOLUM								Incident Number: NAPP2303854000		
						Job Number: 03C1558187				
	ı	ITHOL	OGIC	: / SOIL S	AMPLING	Logged By: MR	Method: Backhoe			
Coord	inates: 32					Hole Diameter: NA	Total Depth: 2'			
Comm	ents: Field	d screenii	ng co	nducted wi		PID for chloride and vapor, rector is included in all chloride				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions	
M D	1,831 532 285.6	0.0 1.3	N N	SS06 PH06	0.5 _ - - - 2 _	0 - - 1 - - - 2	CCHE	sub-rounded grains, 0.5-2' CALICHE with tra	d grains, poorly sorted, v.	
						- · · · · · · · · · · · · · · · · · · ·				

								Sample Name: PH07	Date: 3/23/2023
							B .4	Site Name: Remuda 500	5 410. 6/ 20/ 2020
			N	3	OL	Incident Number: NAPP2303854000			
						Job Number: 03C1558187			
	ı	ITHOLO	OGIC	: / SOIL S	AMPLING	Logged By: MR	Method: Backhoe		
Coord	linates: 32.					Hole Diameter: NA	Total Depth: 2'		
Comn	nents: Field	d screenii	ng co	nducted wi		PID for chloride and vapor, rector is included in all chloride			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	-	ic Descriptions
M D	5,964 3,197.1	0.0 0.5	N N	SS07	0.5 _ - - -	0 1	CCHE	sub-rounded grains, 0.5-2' CALICHE with tra	d grains, poorly sorted,
D	795.2	0.3	Z	PH07	2	2 TD		Total Depth @ 2 ft bgs	

								Sample Name: PH08	Date: 3/23/2023	
	7			C			B .4	Site Name: Remuda 500	Juce: 5/ 25/ 2525	
ENSOLUM								Incident Number: NAPP2303854000		
						Job Number: 03C1558187				
	ı	ITHOL	OGIC	: / SOIL S	AMPLING	Logged By: MR	Method: Backhoe			
Coord	inates: 32					Hole Diameter: NA	Total Depth: 2'			
Comm	nents: Field	d screenii	ng co	nducted wi		PID for chloride and vapor, restor is included in all chloride				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	-	c Descriptions	
M D	14,067 2,783 795.2	0.0 0.9 0.5		SS08 PH08	2 -	1 0 - 1 - 2 - TD	CCHE	0.5-2' CALICHE with tra	stained, no odor, moist. ce fine sand/silt mix, -rounded grains, poorly odor, dry.	
					- - - - - - - -					



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 3/31/2023 4:13:49 PM Revision 1

JOB DESCRIPTION

Remuda 500 SDG NUMBER 03C1558187

JOB NUMBER

890-4300-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 3/31/2023 4:13:49 PM Revision 1

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

3/31/2023 (Rev. 1)

Page 2 of 39

Client: Ensolum
Project/Site: Remuda 500
Laboratory Job ID: 890-4300-1
SDG: 03C1558187

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	25
Lab Chronicle	29
Certification Summary	33
Method Summary	34
Sample Summary	35
Chain of Custody	36
Receint Checklists	38

2

3

4

6

8

10

12

13

14

Qualifier Description

Definitions/Glossary

Client: Ensolum Job ID: 890-4300-1 Project/Site: Remuda 500 SDG: 03C1558187

Qualifiers

GC	VOA
Qual	ifier

F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

U

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Remuda 500

Job ID: 890-4300-1

SDG: 03C1558187

Job ID: 890-4300-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4300-1

REVISION

The report being provided is a revision of the original report sent on 3/27/2023. The report (revision 1) is being revised due to Per client email, requesting chloride re run on SS11.

Report revision history

Receipt

The samples were received on 3/14/2023 8:17 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 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4300-1), SS02 (890-4300-2), SS03 (890-4300-3), SS04 (890-4300-4), SS05 (890-4300-5), SS06 (890-4300-6), SS07 (890-4300-7), SS08 (890-4300-8), SS09 (890-4300-9), SS10 (890-4300-10), SS11 (890-4300-11), SS12 (890-4300-12) and SS13 (890-4300-13).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-4300-1), SS02 (890-4300-2), SS03 (890-4300-3), SS04 (890-4300-4), SS05 (890-4300-5), SS06 (890-4300-6), SS07 (890-4300-7), SS08 (890-4300-8), SS09 (890-4300-9), SS10 (890-4300-10), SS11 (890-4300-11), SS12 (890-4300-12), SS13 (890-4300-13), (LCS 880-49336/1-A), (LCSD 880-49336/2-A), (880-25896-A-28-F), (880-25896-A-28-D MS) and (880-25896-A-28-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-48781 and analytical batch 880-48812 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-4300-1), SS02 (890-4300-2), SS07 (890-4300-7), (LCS 880-48781/2-A) and (MB 880-48781/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300 ORGFM 28D: Job 890-4351-1 is on HOLD.(890-4351-A-1-F MS) and (890-4351-A-1-G MSD)

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49736 and 880-49736 and analytical batch 880-49848 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.SS11 (890-4300-11), (880-26435-A-11-A), (880-26435-A-11-B MS) and (880-26435-A-11-C MSD)

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

Matrix: Solid

Lab Sample ID: 890-4300-1

Job ID: 890-4300-1

Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: SS01 Date Collected: 03/13/23 10:25 Date Received: 03/14/23 08:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 19:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 19:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 19:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/25/23 19:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 19:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/25/23 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	171	S1+	70 - 130			03/23/23 14:56	03/25/23 19:22	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130			03/23/23 14:56	03/25/23 19:22	1

Method: IAL SOP Total BIEX	- Total BTEX Calcul	lation					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	mg/Kg			03/27/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg	_	03/16/23 15:06	03/17/23 13:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 13:19	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 13:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			03/16/23 15:06	03/17/23 13:19	1

o-Terpnenyi	132 51+	70 - 130		(03/16/23 15:06	03/11/23 13:19	1
Method: EPA 300.0 - Anions, lo	n Chromatography - So	luble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

03/22/23 00:04 Chloride 7130 49.9 mg/Kg **Client Sample ID: SS02** Lab Sample ID: 890-4300-2

Date Collected: 03/13/23 10:30 Date Received: 03/14/23 08:17

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

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 19:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 19:49	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 19:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/25/23 19:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 19:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/25/23 19:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	183	S1+	70 - 130			03/23/23 14:56	03/25/23 19:49	1

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-4300-1

Matrix: Solid

Lab Sample ID: 890-4300-2

Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: SS02

Date Collected: 03/13/23 10:30 Date Received: 03/14/23 08:17

Sample Depth: 0.5

Method: SW846 8021B	- Volatile Organic	: Compounds	(GC)	(Continued)
Michiga: CVIC40 002 1B	Tolutile Organi	, compounds	100	(Oontinuca)

Surrogate	%Recovery	Qualifier Lim	its P	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	73	70 -	<u></u>	23/23 14:56	03/25/23 19:49	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/27/23 10:35	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/21/23 09:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/16/23 15:06	03/17/23 13:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/16/23 15:06	03/17/23 13:41	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/16/23 15:06	03/17/23 13:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111	70 - 130	03/16/23 15:06	03/17/23 13:41	1
o-Terphenyl	132 S1+	70 - 130	03/16/23 15:06	03/17/23 13:41	1

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2350		25.3	mg/Kg			03/22/23 00:08	5

Lab Sample ID: 890-4300-3 **Client Sample ID: SS03 Matrix: Solid**

Date Collected: 03/13/23 10:35 Date Received: 03/14/23 08:17

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D F	repared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	03/2	23/23 14:56	03/25/23 20:16	1
Toluene	<0.00200	U	0.00200	mg/Kg	03/2	23/23 14:56	03/25/23 20:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	03/2	23/23 14:56	03/25/23 20:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	03/2	23/23 14:56	03/25/23 20:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg	03/2	23/23 14:56	03/25/23 20:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	03/2	23/23 14:56	03/25/23 20:16	1
Surrogate	%Recovery	Qualifier	Limits		F	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	209	S1+	70 - 130		03/2	23/23 14:56	03/25/23 20:16	1
1,4-Difluorobenzene (Surr)	76		70 - 130		03/2	23/23 14:56	03/25/23 20:16	1

Mothod: TAL	SOP Total BTFX -	Total DTEV	Calculation
i weinoo' lai .	SUP IOIAL BIEK -	· IOIAL BIEK	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg	_		03/27/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)
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Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 €	U	50.0	mg/Kg		_	03/21/23 09:53	1

Matrix: Solid

Client: Ensolum Job ID: 890-4300-1

Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: SS03 Lab Sample ID: 890-4300-3 Date Collected: 03/13/23 10:35 Date Received: 03/14/23 08:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/16/23 15:06	03/17/23 14:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/16/23 15:06	03/17/23 14:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/16/23 15:06	03/17/23 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			03/16/23 15:06	03/17/23 14:03	1
o-Terphenyl	113		70 - 130			03/16/23 15:06	03/17/23 14:03	1
- 	lon Chromat	tography -	Soluble					
Method: EPA 300.0 - Anions,								
Method: EPA 300.0 - Anions, Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS04 Lab Sample ID: 890-4300-4 Date Collected: 03/13/23 10:40 **Matrix: Solid**

Date Received: 03/14/23 08:17

Sample Depth: 0.5

Method: SW846 8021B - Volat	tile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 20:43	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 20:43	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 20:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/25/23 20:43	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 20:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/25/23 20:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	207	S1+	70 - 130			03/23/23 14:56	03/25/23 20:43	1
1,4-Difluorobenzene (Surr)	79		70 - 130			03/23/23 14:56	03/25/23 20:43	1
Method: TAL SOP Total BTEX	. Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/27/23 10:35	1
Method: SW846 8015 NM - Di	esel Range (Organics (DRO) (GC)					
Analyte	_	Qualifier	, RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	1
Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9	mg/Kg		03/16/23 15:06	03/17/23 14:24	1
(GRO)-C6-C10	<49.9	11	49.9	ma/Ka		03/16/23 15:06	03/17/23 14:24	1
Diesel Range Organics (Over C10-C28)	\49.9	U	49.9	mg/Kg		03/10/23 13.00	03/17/23 14.24	·
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 14:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/16/23 15:06	03/17/23 14:24	1
o-Terphenyl	117		70 - 130			03/16/23 15:06	03/17/23 14:24	1

Job ID: 890-4300-1

Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: SS04 Date Collected: 03/13/23 10:40

Lab Sample ID: 890-4300-4 Matrix: Solid

Date Received: 03/14/23 08:17 Sample Depth: 0.5

Method: EPA 300.0 - Anions, Id	on Chromat	tography - S	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3790		24.8	mg/Kg			03/22/23 00:18	5

Client Sample ID: SS05 Lab Sample ID: 890-4300-5 Matrix: Solid

Date Collected: 03/13/23 11:00 Date Received: 03/14/23 08:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/25/23 21:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/25/23 21:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/25/23 21:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/23/23 14:56	03/25/23 21:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/25/23 21:09	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/23/23 14:56	03/25/23 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	187	S1+	70 - 130			03/23/23 14:56	03/25/23 21:09	1
1,4-Difluorobenzene (Surr)	73		70 - 130			03/23/23 14:56	03/25/23 21:09	1

Method. TAL SUP Total BTEX	- IULAI DIE	v Calculat	lion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/27/23 10:35	1
<u>_</u>								

Method: SW846 8015 NM - Die	sel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/16/23 15:06	03/17/23 14:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 14:47	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			03/16/23 15:06	03/17/23 14:47	1
o-Terphenyl	117		70 - 130			03/16/23 15:06	03/17/23 14:47	1

Method: EPA 300.0 - Anions, Id	on Chromatography - S	oluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540	25.3	mg/Kg			03/22/23 00:23	5

Matrix: Solid

Job ID: 890-4300-1

Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: 890-4300-6

Date Collected: 03/13/23 11:05 Date Received: 03/14/23 08:17

Sample Depth: 0.5

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 21:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 21:36	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 21:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/25/23 21:36	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 21:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/25/23 21:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	204	S1+	70 - 130			03/23/23 14:56	03/25/23 21:36	1
1,4-Difluorobenzene (Surr)	70		70 - 130			03/23/23 14:56	03/25/23 21:36	1

Michiga. TAL GOT Total BTLA	TOTAL DIE	A Gaicaiat	1011					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/27/23 10:35	1

Method: SW846 8015 NM - Die	sel Range (Organics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	1

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/16/23 15:06	03/17/23 15:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 15:09	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 15:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			03/16/23 15:06	03/17/23 15:09	1

Method: EPA 300.0 - Anions, I	on Chromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390	25.0	mg/Kg			03/22/23 00:28	5

70 - 130

129

Client Sample ID: SS07

Date Collected: 03/13/23 11:10

Lab Sample ID: 890-4300-7

Matrix: Solid

Date Received: 03/14/23 08:17

Sample Depth: 0.5

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 23:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 23:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 23:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/25/23 23:24	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/25/23 23:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/25/23 23:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	183	S1+	70 - 130			03/23/23 14:56	03/25/23 23:24	1

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03/16/23 15:06 03/17/23 15:09

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Client: Ensolum Job ID: 890-4300-1 Project/Site: Remuda 500 SDG: 03C1558187

Lab Sample ID: 890-4300-7

Date Collected: 03/13/23 11:10 Date Received: 03/14/23 08:17

Client Sample ID: SS07

Matrix: Solid

Sample Depth: 0.5

Method: SW846 8021B - Volatile O	Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	79	70 - 130	03/23/23 14:56	03/25/23 23:24	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/27/23 10:35	1

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

		, -	() () ()					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/16/23 15:06	03/17/23 15:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 15:53	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 15:53	1
Surrogate	%Recovery	Qualifier	l imits			Prenared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116	70 - 130	03/16/23 15:06	03/17/23 15:53	1
o-Terphenyl	134 S1+	70 - 130	03/16/23 15:06	03/17/23 15:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4730	49.6	mg/Kg			03/22/23 00:33	10

Lab Sample ID: 890-4300-8 **Client Sample ID: SS08 Matrix: Solid**

Date Collected: 03/13/23 11:15 Date Received: 03/14/23 08:17

Sample Depth: 0.5

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

Method: 5W846 8U21B - VC	Diatile Organic	Compound	as (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/25/23 23:51	1
Toluene	< 0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/25/23 23:51	1
Ethylbenzene	< 0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/25/23 23:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/23/23 14:56	03/25/23 23:51	1
o-Xylene	< 0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/25/23 23:51	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/23/23 14:56	03/25/23 23:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	202	S1+	70 - 130			03/23/23 14:56	03/25/23 23:51	1
1,4-Difluorobenzene (Surr)	74		70 - 130			03/23/23 14:56	03/25/23 23:51	1

l Method: TΔI	SOP Total BTFX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg	_		03/27/23 10:35	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			03/21/23 09:53	1

Matrix: Solid

Job ID: 890-4300-1

Lab Sample ID: 890-4300-8

03/23/23 01:17

Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: SS08

Date Collected: 03/13/23 11:15 Date Received: 03/14/23 08:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/16/23 15:06	03/17/23 16:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/16/23 15:06	03/17/23 16:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/16/23 15:06	03/17/23 16:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			03/16/23 15:06	03/17/23 16:15	1
o-Terphenyl	112		70 - 130			03/16/23 15:06	03/17/23 16:15	1
Method: EPA 300.0 - Anions,	on Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS09 Lab Sample ID: 890-4300-9 Date Collected: 03/13/23 11:50 **Matrix: Solid**

99.6

mg/Kg

167

<50.0 U

%Recovery Qualifier

83

94

Date Received: 03/14/23 08:17

Sample Depth: 0.5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/26/23 00:18	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/26/23 00:18	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/26/23 00:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/26/23 00:18	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/26/23 00:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/26/23 00:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130			03/23/23 14:56	03/26/23 00:18	1
1,4-Difluorobenzene (Surr)	71		70 - 130			03/23/23 14:56	03/26/23 00:18	1
- T,4 Dinacrobenzene (Garr)	, ,		70 - 700			00/20/20 14.00	00/20/20 00.10	•
Method: TAL SOP Total BT		X Calculat				00,20,20 11.00	00, 20, 20 00. 70	
• ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′	EX - Total BTE	X Calculat Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BT	EX - Total BTE	Qualifier	ion	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX	TEX - Total BTE Result <0.00398	Qualifier U	ion RL 0.00398		<u>D</u>		Analyzed	
Method: TAL SOP Total BT Analyte	TEX - Total BTE Result <0.00398 Diesel Range	Qualifier U	ion RL 0.00398		<u>D</u>		Analyzed	
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM -	TEX - Total BTE Result <0.00398 Diesel Range	Qualifier U Organics (Qualifier	ion RL 0.00398	mg/Kg	=	Prepared	Analyzed 03/27/23 10:35	1
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte	EX - Total BTE Result <0.00398 Diesel Range Result <50.0	Qualifier U Organics (Qualifier U	DRO) (GC) RL 50.0	mg/Kg Unit	=	Prepared	Analyzed 03/27/23 10:35 Analyzed	1
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH Method: SW846 8015B NM	EX - Total BTE Result <0.00398 Diesel Range Result <50.0 - Diesel Range	Qualifier U Organics (Qualifier U	DRO) (GC) RL 50.0	mg/Kg Unit	=	Prepared	Analyzed 03/27/23 10:35 Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH	EX - Total BTE Result <0.00398 Diesel Range Result <50.0 - Diesel Range	Qualifier U Organics (Qualifier U Organics Qualifier U	DRO) (GC) RL 50.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 03/27/23 10:35 Analyzed 03/21/23 09:53	1

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Analyzed

03/16/23 15:06 03/17/23 16:38

03/16/23 15:06 03/17/23 16:38

Prepared

50.0

Limits

70 - 130

70 - 130

mg/Kg

Dil Fac

Oll Range Organics (Over C28-C36)

Surrogate

o-Terphenyl

1-Chlorooctane

Job ID: 890-4300-1

Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: SS09 Lab Sample ID: 890-4300-9

Date Collected: 03/13/23 11:50 Matrix: Solid Date Received: 03/14/23 08:17

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Resul	t Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<4.99	Ū U	4.95	mg/Kg			03/23/23 01:22	1			

Client Sample ID: SS10 Lab Sample ID: 890-4300-10 Matrix: Solid

Date Collected: 03/13/23 12:05

Date Received: 03/14/23 08:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/26/23 00:44	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/26/23 00:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/26/23 00:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/26/23 00:44	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/23/23 14:56	03/26/23 00:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/23/23 14:56	03/26/23 00:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	214	S1+	70 - 130			03/23/23 14:56	03/26/23 00:44	1
1,4-Difluorobenzene (Surr)	75		70 - 130			03/23/23 14:56	03/26/23 00:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation										
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Total BTEX	<0.00398	U	0.00398	mg/Kg			03/27/23 10:35	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	1	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/16/23 15:06	03/17/23 17:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 17:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			03/16/23 15:06	03/17/23 17:00	1
o-Terphenyl	117		70 - 130			03/16/23 15:06	03/17/23 17:00	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.3		4.97	mg/Kg			03/23/23 01:36	1

Date Received: 03/14/23 08:17

Matrix: Solid

Job ID: 890-4300-1

Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: SS11 Lab Sample ID: 890-4300-11 Date Collected: 03/13/23 12:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/26/23 01:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/26/23 01:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/26/23 01:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/23/23 14:56	03/26/23 01:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/26/23 01:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/23/23 14:56	03/26/23 01:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	216	S1+	70 - 130			03/23/23 14:56	03/26/23 01:10	1
1,4-Difluorobenzene (Surr)	87		70 - 130			03/23/23 14:56	03/26/23 01:10	1
- Method: TAL SOP Total BTEX	(- Total BTE	X Calculat	ion					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/27/23 10:35	1
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/21/23 09:53	Dil Fac
Total TPH						Prepared		
- Method: SW846 8015B NM - I	Diocal Bango	Organica	(DBO) (GC)					
Analyte	•	Qualifier	(DRO) (GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9		49.9	 	_ =		03/17/23 17:22	1
(GRO)-C6-C10	140.0	0 1	40.0	mg/rtg		03/10/23 13:00	00/11/20 17.22	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 17:22	1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9		49.9 49.9	mg/Kg mg/Kg		03/16/23 15:06 03/16/23 15:06		1
C10-C28)		U						1
C10-C28) OII Range Organics (Over C28-C36)	<49.9	U	49.9			03/16/23 15:06	03/17/23 17:22	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 %Recovery	U	49.9			03/16/23 15:06 Prepared	03/17/23 17:22 Analyzed 03/17/23 17:22	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 **Recovery 88 103	∪ Qualifier	49.9 Limits 70 - 130 70 - 130			03/16/23 15:06 Prepared 03/16/23 15:06	03/17/23 17:22 Analyzed 03/17/23 17:22	1 Dil Fac

Client Sample ID: SS12 Lab Sample ID: 890-4300-12 **Matrix: Solid**

5.03

mg/Kg

661

Date Collected: 03/13/23 12:20 Date Received: 03/14/23 08:17

Sample Depth: 0.5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/23/23 14:56	03/26/23 01:37	1
Toluene	< 0.00201	U	0.00201	mg/Kg		03/23/23 14:56	03/26/23 01:37	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		03/23/23 14:56	03/26/23 01:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/23/23 14:56	03/26/23 01:37	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		03/23/23 14:56	03/26/23 01:37	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/23/23 14:56	03/26/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	216	S1+	70 - 130			03/23/23 14:56	03/26/23 01:37	1

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03/29/23 06:57

3/31/2023 (Rev. 1)

Client: Ensolum Job ID: 890-4300-1

Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: SS12 Lab Sample ID: 890-4300-12

Date Collected: 03/13/23 12:20

Matrix: Solid

Date Received: 03/14/23 08:17 Sample Depth: 0.5

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

 Surrogate
 %Recovery [Qualifier]
 Limits [Insert Prepared No.130]
 Prepared Prepared No.130
 Analyzed No.126/23 01:37
 Dil Fact O3/23/23 14:56
 03/23/23 14:56
 03/26/23 01:37
 1

Method: TAL SOP Total BTEX - Total BTEX Calculation

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total BTEX
 <0.00402</td>
 U
 0.00402
 mg/Kg
 03/27/23 10:35
 1

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

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total TPH
 <50.0</td>
 U
 50.0
 mg/Kg

 03/21/23 09:53
 1

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

Result Qualifier D Dil Fac Unit Prepared Analyte Analyzed <50.0 U *1 50.0 03/16/23 15:06 03/17/23 17:44 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/16/23 15:06 03/17/23 17:44 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 03/16/23 15:06 03/17/23 17:44 mg/Kg

 Surrogate
 %Recovery 1-Chlorooctane
 Qualifier 2-1-Chlorooctane
 Limits 70 - 130
 Prepared 03/16/23 15:06
 Analyzed 03/17/23 17:44
 Dil Fact 03/16/23 15:06

 o-Terphenyl
 100
 70 - 130
 03/16/23 15:06
 03/17/23 17:44
 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

 Analyte
 Result Outline
 Qualifier
 RL St. Outline
 Unit May be prepared
 Description
 Prepared Prepared
 Analyzed Analyzed Oil Factorial Prepared
 Dil Factorial Prepared
 May be prepared
 Analyzed Oil Factorial Prepared
 Dil Factorial Prepared
 May be prepared
 Dil Factorial Prepared

Client Sample ID: SS13

Lab Sample ID: 890-4300-13

Date Collected: 03/13/23 12:25

Matrix: Solid

Date Collected: 03/13/23 12:25 Date Received: 03/14/23 08:17

Sample Depth: 0.5

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

Analyte Result Qualifier RI Unit D Prepared Dil Fac Analyzed Benzene < 0.00200 U 0.00200 mg/Kg 03/23/23 14:56 03/26/23 02:04 Toluene <0.00200 U 0.00200 mg/Kg 03/23/23 14:56 03/26/23 02:04 Ethylbenzene <0.00200 U 0.00200 mg/Kg 03/23/23 14:56 03/26/23 02:04 m-Xylene & p-Xylene <0.00401 U 0.00401 mg/Kg 03/23/23 14:56 03/26/23 02:04 o-Xylene <0.00200 U 0.00200 mg/Kg 03/23/23 14:56 03/26/23 02:04 Xylenes, Total <0.00401 U 0.00401 mg/Kg 03/23/23 14:56 03/26/23 02:04 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

 Surrogate
 %Recovery qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 4-Bromofluorobenzene (Surr)
 202
 \$1+
 70 - 130
 03/23/23 14:56
 03/26/23 02:04
 1

 1,4-Difluorobenzene (Surr)
 78
 70 - 130
 03/23/23 14:56
 03/26/23 02:04
 1

Method: TAL SOP Total BTEX - Total BTEX Calculation

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total BTEX
 <0.00401</td>
 U
 0.00401
 mg/Kg
 03/27/23 10:35
 1

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

 Analyte
 Result Total TPH
 Qualifier Qualifier
 RL VINITY
 Unit VINITY
 D VINITY
 Prepared VINITY
 Analyzed VINITY
 Dil Fac VINITY

 Total TPH
 49.9
 U
 49.9
 mg/Kg
 03/21/23 09:53
 1

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Client Sample Results

Client: Ensolum Job ID: 890-4300-1 Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: SS13 Lab Sample ID: 890-4300-13 Date Collected: 03/13/23 12:25

Matrix: Solid

Date Received: 03/14/23 08:17 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/16/23 15:06	03/17/23 18:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 18:06	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 18:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			03/16/23 15:06	03/17/23 18:06	1
o-Terphenyl	118		70 - 130			03/16/23 15:06	03/17/23 18:06	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	Soluble					
Method: EPA 300.0 - Anions, Analyte		tography - Qualifier	Soluble RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-4300-1 Project/Site: Remuda 500 SDG: 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		DED4		t Surrogate Recovery (Acceptance Limits)
l ah Camania ID	Oliant Canada ID	BFB1 (70-130)	DFBZ1 (70, 120)	
Lab Sample ID 880-25896-A-28-D MS	Client Sample ID		(70-130) —	
	Matrix Spike			
880-25896-A-28-E MSD	Matrix Spike Duplicate	182 S1+	92	
890-4300-1	SS01	171 S1+	63 S1-	
890-4300-2	SS02	183 S1+	73	
890-4300-3	SS03	209 S1+	76	
890-4300-4	SS04	207 S1+	79	
890-4300-5	SS05	187 S1+	73	
890-4300-6	SS06	204 S1+	70	
890-4300-7	SS07	183 S1+	79	
890-4300-8	SS08	202 S1+	74	
890-4300-9	SS09	145 S1+	71	
890-4300-10	SS10	214 S1+	75	
890-4300-11	SS11	216 S1+	87	
890-4300-12	SS12	216 S1+	73	
890-4300-13	SS13	202 S1+	78	
LCS 880-49336/1-A	Lab Control Sample	147 S1+	71	
LCSD 880-49336/2-A	Lab Control Sample Dup	170 S1+	84	
MB 880-49330/5-A	Method Blank	115	72	
MB 880-49336/5-A	Method Blank	124	72	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1	nt Surrogate Reco
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-4297-A-3-B MS	Matrix Spike	96	101	
390-4297-A-3-C MSD	Matrix Spike Duplicate	112	114	
390-4300-1	SS01	114	132 S1+	
390-4300-2	SS02	111	132 S1+	
390-4300-3	SS03	96	113	
390-4300-4	SS04	99	117	
390-4300-5	SS05	98	117	
390-4300-6	SS06	111	129	
390-4300-7	SS07	116	134 S1+	
390-4300-8	SS08	96	112	
390-4300-9	SS09	83	94	
390-4300-10	SS10	103	117	
390-4300-11	SS11	88	103	
390-4300-12	SS12	87	100	
390-4300-13	SS13	102	118	
_CS 880-48781/2-A	Lab Control Sample	121	136 S1+	
_CSD 880-48781/3-A	Lab Control Sample Dup	104	120	
	Method Blank	108	133 S1+	

Surrogate Summary

Client: Ensolum Project/Site: Remuda 500

OTPH = o-Terphenyl

Job ID: 890-4300-1 SDG: 03C1558187

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Client: Ensolum Job ID: 890-4300-1 Project/Site: Remuda 500 SDG: 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49330/5-A

Matrix: Solid

Analysis Batch: 49363

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49330

	MB I	MB						
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	U	0.00200	mg/Kg		03/23/23 13:22	03/25/23 02:44	1
Toluene	<0.00200 l	U	0.00200	mg/Kg		03/23/23 13:22	03/25/23 02:44	1
Ethylbenzene	<0.00200 l	U	0.00200	mg/Kg		03/23/23 13:22	03/25/23 02:44	1
m-Xylene & p-Xylene	<0.00400 U	U	0.00400	mg/Kg		03/23/23 13:22	03/25/23 02:44	1
o-Xylene	<0.00200 l	U	0.00200	mg/Kg		03/23/23 13:22	03/25/23 02:44	1
Xylenes, Total	<0.00400 l	U	0.00400	mg/Kg		03/23/23 13:22	03/25/23 02:44	1

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	72	70 - 130

03/23/23 13:22 03/25/23 02:44 **Client Sample ID: Method Blank**

03/23/23 13:22 03/25/23 02:44

Analyzed

Prepared

Prep Type: Total/NA Prep Batch: 49336

Lab Sample ID: MB 880-49336/5-A

Matrix: Solid

Analysis Batch: 49363

		MB	MB						
Anal	yte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benz	rene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/25/23 17:08	1
Tolue	ene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/25/23 17:08	1
Ethyl	lbenzene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/25/23 17:08	1
m-Xy	/lene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/23/23 14:56	03/25/23 17:08	1
o-Xy	lene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:56	03/25/23 17:08	1
Xyleı	nes, Total	< 0.00400	U	0.00400	mg/Kg		03/23/23 14:56	03/25/23 17:08	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	03/23/23 14:56	03/25/23 17:08	1
1,4-Difluorobenzene (Surr)	72		70 - 130	03/23/23 14:56	03/25/23 17:08	1

Lab Sample ID: LCS 880-49336/1-A

Matrix: Solid

Analysis Batch: 49363

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

Client Sample ID: Lab Control Sample Dup

Prep Batch: 49336

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1152		mg/Kg		115	70 - 130	
Toluene	0.100	0.09755		mg/Kg		98	70 - 130	
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.2151		mg/Kg		108	70 - 130	
o-Xylene	0.100	0.1060		mg/Kg		106	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130
1,4-Difluorobenzene (Surr)	71		70 - 130

Lab Sample ID: LCSD 880-49336/2-A

Matrix: Solid							Prep Ty	pe: Tot	al/NA
Analysis Batch: 49363							Prep E	atch: 4	19336
•	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1270		mg/Kg		127	70 - 130	10	35

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Dil Fac

Client: Ensolum Job ID: 890-4300-1 Project/Site: Remuda 500 SDG: 03C1558187

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

Lab Sample ID: LCSD 880-49336/2-A

Matrix: Solid

Analysis Batch: 49363

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49336

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1074		mg/Kg		107	70 - 130	10	35
Ethylbenzene	0.100	0.1113		mg/Kg		111	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2279		mg/Kg		114	70 - 130	6	35
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	170	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 880-25896-A-28-D MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 49363

Prep Type: Total/NA

Prep Batch: 49336

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F2 F1	0.100	0.03604	F1	mg/Kg		36	70 - 130	
Toluene	<0.00202	U F2 F1	0.100	0.03618	F1	mg/Kg		36	70 - 130	
Ethylbenzene	<0.00202	U F2 F1	0.100	0.04126	F1	mg/Kg		41	70 - 130	
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.201	0.08715	F1	mg/Kg		43	70 - 130	
o-Xylene	<0.00202	U F2 F1	0.100	0.04721	F1	mg/Kg		47	70 - 130	

MS MS

Surrogate	%Recovery	Qualitier	Limits
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130
1,4-Difluorobenzene (Surr)	73		70 - 130

Lab Sample ID: 880-25896-A-28-E MSD

Matrix: Solid

Analysis Batch: 49363

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49336

7 many one Datem 10000											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F2 F1	0.0996	0.07584	F2	mg/Kg		76	70 - 130	71	35
Toluene	<0.00202	U F2 F1	0.0996	0.06818	F2 F1	mg/Kg		68	70 - 130	61	35
Ethylbenzene	<0.00202	U F2 F1	0.0996	0.07427	F2	mg/Kg		75	70 - 130	57	35
m-Xylene & p-Xylene	< 0.00403	U F2 F1	0.199	0.1550	F2	mg/Kg		78	70 - 130	56	35
o-Xylene	<0.00202	U F2 F1	0.0996	0.07922	F2	mg/Kg		80	70 - 130	51	35
I and the second											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-48781/1-A

Matrix: Solid

Analysis Batch: 48812

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

Prep Batch: 48781

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 03/16/23 15:06 03/17/23 08:28

(GRO)-C6-C10

Client: Ensolum Project/Site: Remuda 500

Job ID: 890-4300-1

SDG: 03C1558187

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

Lab Sample ID: MB 880-48781/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 48812** Prep Batch: 48781

	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		03/16/23 15:06	03/17/23 08:28	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/16/23 15:06	03/17/23 08:28	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			03/16/23 15:06	03/17/23 08:28	1
o-Terphenyl	133	S1+	70 - 130			03/16/23 15:06	03/17/23 08:28	1

Lab Sample ID: LCS 880-48781/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 48812** Prep Batch: 48781 LCS LCS Spike %Rec Added Result Qualifier Limits Analyte Unit %Rec 1000 1075 Gasoline Range Organics mg/Kg 107 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1006 101 70 - 130 mg/Kg C10-C28) LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 121 70 - 130 o-Terphenyl 136 S1+

Lab Sample ID: LCSD 880-48781/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA **Analysis Batch: 48812** Prep Batch: 48781 Spike LCSD LCSD %Rec **RPD Analyte** Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics 1000 859.6 *1 mg/Kg 86 70 - 130 22 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 881.0 mg/Kg 88 70 - 130 13 20 C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 890-4297-A-3-B MS **Client Sample ID: Matrix Spike Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 48812** Prep Batch: 48781 Spike MS MS %Rec Sample Sample **Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits <49.9 U *1 Gasoline Range Organics 998 898.9 85 70 - 130 mg/Kg (GRO)-C6-C10 998 1034 90 70 - 130 Diesel Range Organics (Over 133 mg/Kg C10-C28) MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 96 70 - 130 101 70 - 130 o-Terphenyl

Client: Ensolum Job ID: 890-4300-1 Project/Site: Remuda 500 SDG: 03C1558187

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

Lab Sample ID: 890-4297-A-3-C MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analysis Batch: 48812

Prep Type: Total/NA Prep Batch: 48781

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit Analyte <49.9 U *1 Gasoline Range Organics 999 1011 mg/Kg 96 70 - 130 12 20 (GRO)-C6-C10 Diesel Range Organics (Over 999 1176 104 70 - 130 133 mg/Kg 13

C10-C28)

MSD MSD

Surrogate	%Recovery Qualifi	er Limits
1-Chlorooctane	112	70 - 130
o-Terphenyl	114	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49104/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49191

MB MB

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 L	J	5.00	mg/Kg			03/21/23 22:08	1

Lab Sample ID: LCS 880-49104/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49191

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 	250	248.5		mg/Kg		99	90 - 110	

Lab Sample ID: LCSD 880-49104/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49191

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	248.6		mg/Kg		99	90 - 110	0	20	

Lab Sample ID: 880-26187-A-6-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49191

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	65.7		251	323.1		ma/Ka		103	90 - 110	

Lab Sample ID: 880-26187-A-6-C MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49191

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	65.7		251	323.9		mg/Kg		103	90 - 110	0	20

Client: Ensolum Job ID: 890-4300-1 SDG: 03C1558187 Project/Site: Remuda 500

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4351-A-1-F MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49191

Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Added Limits Analyte Unit D %Rec Chloride 1010 1260 2398 mg/Kg 110 90 - 110

Lab Sample ID: 890-4351-A-1-G MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49191

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 1260 90 - 110 Chloride 1010 2397 mg/Kg 110 n

Lab Sample ID: MB 880-48966/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49317

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 03/22/23 23:40 mg/Kg

Lab Sample ID: LCS 880-48966/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49317

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 257.1 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-48966/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49317

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 258.8 104 mg/Kg 90 - 110

Lab Sample ID: 880-25948-A-11-C MS

Matrix: Solid

Analysis Batch: 49317

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits 248 Chloride 42.7 272.8 mg/Kg 93 90 - 110

Lab Sample ID: 880-25948-A-11-D MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49317

Sample Sample Spike MSD MSD %Rec **RPD** Added Result Qualifier Result Qualifier Limits RPD Limit Analyte Unit D %Rec 248 93 Chloride 42.7 273.2 mg/Kg 90 - 110

Lab Sample ID: MB 880-49736/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49848

MB MB RL Unit Analyte Result Qualifier D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 03/29/23 04:51 mg/Kg

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Client Sample ID: Matrix Spike

Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-4300-1 Project/Site: Remuda 500

SDG: 03C1558187

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-49736/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49848 LCS LCS Spike %Rec Analyte Added Result Qualifier Unit Limits D %Rec

Chloride 250 269.1 mg/Kg 108 90 - 110 Lab Sample ID: LCSD 880-49736/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid **Prep Type: Soluble Analysis Batch: 49848**

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 90 - 110 269.1 mg/Kg 108 0

Lab Sample ID: 880-26435-A-11-B MS **Client Sample ID: Matrix Spike**

Matrix: Solid Prep Type: Soluble Analysis Batch: 49848

Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Chloride 45.8 F1 250 323.4 F1 mg/Kg

Lab Sample ID: 880-26435-A-11-C MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49848

Spike MSD MSD %Rec **RPD** Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit Chloride 45.8 F1 250 322.5 F1 mg/Kg 111 90 - 110

Client: Ensolum

Project/Site: Remuda 500

Job ID: 890-4300-1

SDG: 03C1558187

GC VOA

Prep Batch: 49330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49330/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 49336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4300-1	SS01	Total/NA	Solid	5035	
890-4300-2	SS02	Total/NA	Solid	5035	
890-4300-3	SS03	Total/NA	Solid	5035	
890-4300-4	SS04	Total/NA	Solid	5035	
890-4300-5	SS05	Total/NA	Solid	5035	
890-4300-6	SS06	Total/NA	Solid	5035	
890-4300-7	SS07	Total/NA	Solid	5035	
890-4300-8	SS08	Total/NA	Solid	5035	
890-4300-9	SS09	Total/NA	Solid	5035	
890-4300-10	SS10	Total/NA	Solid	5035	
890-4300-11	SS11	Total/NA	Solid	5035	
890-4300-12	SS12	Total/NA	Solid	5035	
890-4300-13	SS13	Total/NA	Solid	5035	
MB 880-49336/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49336/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49336/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25896-A-28-D MS	Matrix Spike	Total/NA	Solid	5035	
880-25896-A-28-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4300-1	SS01	Total/NA	Solid	8021B	49336
890-4300-2	SS02	Total/NA	Solid	8021B	49336
890-4300-3	SS03	Total/NA	Solid	8021B	49336
890-4300-4	SS04	Total/NA	Solid	8021B	49336
890-4300-5	SS05	Total/NA	Solid	8021B	49336
890-4300-6	SS06	Total/NA	Solid	8021B	49336
890-4300-7	SS07	Total/NA	Solid	8021B	49336
890-4300-8	SS08	Total/NA	Solid	8021B	49336
890-4300-9	SS09	Total/NA	Solid	8021B	49336
890-4300-10	SS10	Total/NA	Solid	8021B	49336
890-4300-11	SS11	Total/NA	Solid	8021B	49336
890-4300-12	SS12	Total/NA	Solid	8021B	49336
890-4300-13	SS13	Total/NA	Solid	8021B	49336
MB 880-49330/5-A	Method Blank	Total/NA	Solid	8021B	49330
MB 880-49336/5-A	Method Blank	Total/NA	Solid	8021B	49336
LCS 880-49336/1-A	Lab Control Sample	Total/NA	Solid	8021B	49336
LCSD 880-49336/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49336
880-25896-A-28-D MS	Matrix Spike	Total/NA	Solid	8021B	49336
880-25896-A-28-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49336

Analysis Batch: 49605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-4300-1	SS01	Total/NA	Solid	Total BTEX
890-4300-2	SS02	Total/NA	Solid	Total BTEX
890-4300-3	SS03	Total/NA	Solid	Total BTEX
890-4300-4	SS04	Total/NA	Solid	Total BTEX

Client: Ensolum Job ID: 890-4300-1 Project/Site: Remuda 500 SDG: 03C1558187

GC VOA (Continued)

Analysis Batch: 49605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4300-5	SS05	Total/NA	Solid	Total BTEX	
890-4300-6	SS06	Total/NA	Solid	Total BTEX	
890-4300-7	SS07	Total/NA	Solid	Total BTEX	
890-4300-8	SS08	Total/NA	Solid	Total BTEX	
890-4300-9	SS09	Total/NA	Solid	Total BTEX	
890-4300-10	SS10	Total/NA	Solid	Total BTEX	
890-4300-11	SS11	Total/NA	Solid	Total BTEX	
890-4300-12	SS12	Total/NA	Solid	Total BTEX	
890-4300-13	SS13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4300-1	SS01	Total/NA	Solid	8015NM Prep	
890-4300-2	SS02	Total/NA	Solid	8015NM Prep	
890-4300-3	SS03	Total/NA	Solid	8015NM Prep	
890-4300-4	SS04	Total/NA	Solid	8015NM Prep	
890-4300-5	SS05	Total/NA	Solid	8015NM Prep	
890-4300-6	SS06	Total/NA	Solid	8015NM Prep	
890-4300-7	SS07	Total/NA	Solid	8015NM Prep	
890-4300-8	SS08	Total/NA	Solid	8015NM Prep	
890-4300-9	SS09	Total/NA	Solid	8015NM Prep	
890-4300-10	SS10	Total/NA	Solid	8015NM Prep	
890-4300-11	SS11	Total/NA	Solid	8015NM Prep	
890-4300-12	SS12	Total/NA	Solid	8015NM Prep	
890-4300-13	SS13	Total/NA	Solid	8015NM Prep	
MB 880-48781/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48781/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48781/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4297-A-3-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4297-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4300-1	SS01	Total/NA	Solid	8015B NM	48781
890-4300-2	SS02	Total/NA	Solid	8015B NM	48781
890-4300-3	SS03	Total/NA	Solid	8015B NM	48781
890-4300-4	SS04	Total/NA	Solid	8015B NM	48781
890-4300-5	SS05	Total/NA	Solid	8015B NM	48781
890-4300-6	SS06	Total/NA	Solid	8015B NM	48781
890-4300-7	SS07	Total/NA	Solid	8015B NM	48781
890-4300-8	SS08	Total/NA	Solid	8015B NM	48781
890-4300-9	SS09	Total/NA	Solid	8015B NM	48781
890-4300-10	SS10	Total/NA	Solid	8015B NM	48781
890-4300-11	SS11	Total/NA	Solid	8015B NM	48781
890-4300-12	SS12	Total/NA	Solid	8015B NM	48781
890-4300-13	SS13	Total/NA	Solid	8015B NM	48781
MB 880-48781/1-A	Method Blank	Total/NA	Solid	8015B NM	48781
LCS 880-48781/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48781
LCSD 880-48781/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48781

 Client: Ensolum
 Job ID: 890-4300-1

 Project/Site: Remuda 500
 SDG: 03C1558187

GC Semi VOA (Continued)

Analysis Batch: 48812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4297-A-3-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48781
890-4297-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48781

Analysis Batch: 49094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4300-1	SS01	Total/NA	Solid	8015 NM	_
890-4300-2	SS02	Total/NA	Solid	8015 NM	
890-4300-3	SS03	Total/NA	Solid	8015 NM	
890-4300-4	SS04	Total/NA	Solid	8015 NM	
890-4300-5	SS05	Total/NA	Solid	8015 NM	
890-4300-6	SS06	Total/NA	Solid	8015 NM	
890-4300-7	SS07	Total/NA	Solid	8015 NM	
890-4300-8	SS08	Total/NA	Solid	8015 NM	
890-4300-9	SS09	Total/NA	Solid	8015 NM	
890-4300-10	SS10	Total/NA	Solid	8015 NM	
890-4300-11	SS11	Total/NA	Solid	8015 NM	
890-4300-12	SS12	Total/NA	Solid	8015 NM	
890-4300-13	SS13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4300-8	SS08	Soluble	Solid	DI Leach	
890-4300-9	SS09	Soluble	Solid	DI Leach	
890-4300-10	SS10	Soluble	Solid	DI Leach	
890-4300-12	SS12	Soluble	Solid	DI Leach	
890-4300-13	SS13	Soluble	Solid	DI Leach	
MB 880-48966/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48966/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48966/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25948-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25948-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 49104

Released to Imaging: 8/28/2023 12:18:57 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4300-1	SS01	Soluble	Solid	DI Leach	
890-4300-2	SS02	Soluble	Solid	DI Leach	
890-4300-3	SS03	Soluble	Solid	DI Leach	
890-4300-4	SS04	Soluble	Solid	DI Leach	
890-4300-5	SS05	Soluble	Solid	DI Leach	
890-4300-6	SS06	Soluble	Solid	DI Leach	
890-4300-7	SS07	Soluble	Solid	DI Leach	
MB 880-49104/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49104/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49104/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26187-A-6-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-26187-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-4351-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4351-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

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Client: Ensolum Job ID: 890-4300-1
Project/Site: Remuda 500 SDG: 03C1558187

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Analysis Batch: 49191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4300-1	SS01	Soluble	Solid	300.0	49104
890-4300-2	SS02	Soluble	Solid	300.0	49104
890-4300-3	SS03	Soluble	Solid	300.0	49104
890-4300-4	SS04	Soluble	Solid	300.0	49104
890-4300-5	SS05	Soluble	Solid	300.0	49104
890-4300-6	SS06	Soluble	Solid	300.0	49104
890-4300-7	SS07	Soluble	Solid	300.0	49104
MB 880-49104/1-A	Method Blank	Soluble	Solid	300.0	49104
LCS 880-49104/2-A	Lab Control Sample	Soluble	Solid	300.0	49104
LCSD 880-49104/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49104
880-26187-A-6-B MS	Matrix Spike	Soluble	Solid	300.0	49104
880-26187-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49104
890-4351-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	49104
890-4351-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49104

Analysis Batch: 49317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4300-8	SS08	Soluble	Solid	300.0	48966
890-4300-9	SS09	Soluble	Solid	300.0	48966
890-4300-10	SS10	Soluble	Solid	300.0	48966
890-4300-12	SS12	Soluble	Solid	300.0	48966
890-4300-13	SS13	Soluble	Solid	300.0	48966
MB 880-48966/1-A	Method Blank	Soluble	Solid	300.0	48966
LCS 880-48966/2-A	Lab Control Sample	Soluble	Solid	300.0	48966
LCSD 880-48966/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48966
880-25948-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	48966
880-25948-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48966

Leach Batch: 49736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4300-11	SS11	Soluble	Solid	DI Leach	
MB 880-49736/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49736/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49736/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26435-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-26435-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4300-11	SS11	Soluble	Solid	300.0	49736
MB 880-49736/1-A	Method Blank	Soluble	Solid	300.0	49736
LCS 880-49736/2-A	Lab Control Sample	Soluble	Solid	300.0	49736
LCSD 880-49736/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49736
880-26435-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	49736
880-26435-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49736

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Project/Site: Remuda 500

Client: Ensolum

Matrix: Solid

Date Collected: 03/13/23 10:25 Date Received: 03/14/23 08:17

_	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	49336	03/23/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49363	03/25/23 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49605	03/27/23 10:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 13:19	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49104	03/21/23 16:26	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	49191	03/22/23 00:04	SMC	EET MID

Client Sample ID: SS02

Date Collected: 03/13/23 10:30

Lab Sample ID: 890-4300-2

Matrix: Solid

Date Received: 03/14/23 08:17

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 49336 03/23/23 14:56 MNR EET MID Prep 5.03 g 5 mL Total/NA 8021B 5 mL 03/25/23 19:49 MNR **EET MID** Analysis 5 mL 49363 1 Total/NA Total BTEX Analysis 49605 03/27/23 10:35 AJ **EET MID** 1 Total/NA 8015 NM 49094 **EET MID** Analysis 1 03/21/23 09:53 AJ Total/NA Prep 8015NM Prep 10.01 g 10 mL 48781 03/16/23 15:06 AJ **EET MID** Total/NA 8015B NM 48812 Analysis 1 uL 1 uL 03/17/23 13:41 AJ **EET MID** Soluble 50 mL 49104 Leach DI Leach 4.95 g 03/21/23 16:26 KS **EET MID** 300.0 49191 03/22/23 00:08 SMC Soluble Analysis 5 50 mL 50 mL **EET MID**

Client Sample ID: SS03

Date Collected: 03/13/23 10:35

Lab Sample ID: 890-4300-3

Matrix: Solid

Date Received: 03/14/23 08:17

	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	49336	03/23/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49363	03/25/23 20:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49605	03/27/23 10:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 14:03	AJ	EET MIC
Soluble	Leach	DI Leach			5.03 g	50 mL	49104	03/21/23 16:26	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49191	03/22/23 00:13	SMC	EET MID

Client Sample ID: SS04

Date Collected: 03/13/23 10:40

Lab Sample ID: 890-4300-4

Matrix: Solid

Date Received: 03/14/23 08:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49336	03/23/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49363	03/25/23 20:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49605	03/27/23 10:35	AJ	EET MID

Job ID: 890-4300-1

Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: SS04 Lab Sample ID: 890-4300-4

Date Collected: 03/13/23 10:40 Matrix: Solid Date Received: 03/14/23 08:17

	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			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 14:24	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49104	03/21/23 16:26	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49191	03/22/23 00:18	SMC	EET MID

Client Sample ID: SS05 Lab Sample ID: 890-4300-5

Date Collected: 03/13/23 11:00 **Matrix: Solid**

Date Received: 03/14/23 08:17

	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	49336	03/23/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49363	03/25/23 21:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49605	03/27/23 10:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	48781 48812	03/16/23 15:06 03/17/23 14:47		EET MID EET MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		5	4.95 g 50 mL	50 mL 50 mL	49104 49191	03/21/23 16:26 03/22/23 00:23		EET MID EET MID

Client Sample ID: SS06 Lab Sample ID: 890-4300-6 **Matrix: Solid**

Date Collected: 03/13/23 11:05 Date Received: 03/14/23 08:17

	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	49336	03/23/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49363	03/25/23 21:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49605	03/27/23 10:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 15:09	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49104	03/21/23 16:26	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49191	03/22/23 00:28	SMC	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-4300-7 Date Collected: 03/13/23 11:10 Matrix: Solid

Date Received: 03/14/23 08:17

	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	49336	03/23/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49363	03/25/23 23:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49605	03/27/23 10:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	48781 48812	03/16/23 15:06 03/17/23 15:53		EET MID EET MID

Client: Ensolum

Project/Site: Remuda 500

Job ID: 890-4300-1 SDG: 03C1558187

Client Sample ID: SS07 Lab Sample ID: 890-4300-7 Date Collected: 03/13/23 11:10

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method or Analyzed **Prep Type** Type Run **Factor Amount** Amount Number Analyst Lab Soluble DI Leach 49104 03/21/23 16:26 EET MID Leach 5.04 g 50 mL 300.0 03/22/23 00:33 SMC Soluble Analysis 50 mL 50 mL 49191 **EET MID**

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Client Sample ID: SS08 Lab Sample ID: 890-4300-8

Matrix: Solid

Date Collected: 03/13/23 11:15 Date Received: 03/14/23 08:17

Date Received: 03/14/23 08:17

	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	49336	03/23/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49363	03/25/23 23:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49605	03/27/23 10:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 16:15	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48966	03/20/23 10:54	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	49317	03/23/23 01:17	SMC	EET MID

Lab Sample ID: 890-4300-9 Client Sample ID: SS09

Date Collected: 03/13/23 11:50 **Matrix: Solid** Date Received: 03/14/23 08:17

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 49336 03/23/23 14:56 MNR **EET MID** Total/NA 8021B 49363 03/26/23 00:18 MNR Analysis 5 mL 5 mL **EET MID** 1 Total/NA Analysis Total BTEX 1 49605 03/27/23 10:35 AJ **EET MID** Total/NA Analysis 8015 NM 1 49094 03/21/23 09:53 AJ **EET MID** Total/NA Prep 8015NM Prep 10.01 g 10 mL 48781 03/16/23 15:06 AJ **EET MID** Total/NA Analysis 8015B NM 1 uL 48812 03/17/23 16:38 AJ **EET MID** 1 1 uL Soluble Leach DI Leach 5.05 g 50 mL 48966 03/20/23 10:54 KS **EET MID**

Client Sample ID: SS10 Lab Sample ID: 890-4300-10 Date Collected: 03/13/23 12:05 Matrix: Solid

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50 mL

50 mL

49317

03/23/23 01:22 SMC

Date Received: 03/14/23 08:17

Analysis

300.0

Soluble

	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	49336	03/23/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49363	03/26/23 00:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49605	03/27/23 10:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 17:00	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48966	03/20/23 10:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49317	03/23/23 01:36	SMC	EET MID

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EET MID

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Client: Ensolum Project/Site: Remuda 500

Lab Sample ID: 890-4300-11

Matrix: Solid

Client Sample ID: SS11

Date Collected: 03/13/23 12:10

Date Received: 03/14/23 08:17

	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	49336	03/23/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49363	03/26/23 01:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49605	03/27/23 10:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 17:22	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49736	03/28/23 11:52	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49848	03/29/23 06:57	SMC	EET MID

Client Sample ID: SS12 Lab Sample ID: 890-4300-12

Date Collected: 03/13/23 12:20 Matrix: Solid

Date Received: 03/14/23 08:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49336	03/23/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49363	03/26/23 01:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49605	03/27/23 10:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 17:44	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48966	03/20/23 10:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49317	03/23/23 02:05	SMC	EET MID

Client Sample ID: SS13

Date Collected: 03/13/23 12:25

Lab Sample ID: 890-4300-13

Matrix: Solid

Date Received: 03/14/23 08:17

	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	49336	03/23/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49363	03/26/23 02:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49605	03/27/23 10:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 18:06	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48966	03/20/23 10:54	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	49317	03/23/23 01:46	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4300-1
Project/Site: Remuda 500 SDG: 03C1558187

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analyte:	s are included in this rend	ort but the laboratory is r	not certified by the governing authority.	This list may include analytes for w
the agency does not	•	ore, but the laboratory is i	lot certified by the governing authority.	This list may include analytes for w
	•	Matrix	Analyte	This list may include analytes for w
the agency does not o	offer certification.	•	, , ,	This list may include analytes for w

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Method Summary

Client: Ensolum

Project/Site: Remuda 500

Job ID: 890-4300-1

SDG: 03C1558187

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Remuda 500

Job ID: 890-4300-1

SDG: 03C1558187

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4300-1	SS01	Solid	03/13/23 10:25	03/14/23 08:17	0.5
890-4300-2	SS02	Solid	03/13/23 10:30	03/14/23 08:17	0.5
890-4300-3	SS03	Solid	03/13/23 10:35	03/14/23 08:17	0.5
890-4300-4	SS04	Solid	03/13/23 10:40	03/14/23 08:17	0.5
890-4300-5	SS05	Solid	03/13/23 11:00	03/14/23 08:17	0.5
890-4300-6	SS06	Solid	03/13/23 11:05	03/14/23 08:17	0.5
890-4300-7	SS07	Solid	03/13/23 11:10	03/14/23 08:17	0.5
890-4300-8	SS08	Solid	03/13/23 11:15	03/14/23 08:17	0.5
890-4300-9	SS09	Solid	03/13/23 11:50	03/14/23 08:17	0.5
890-4300-10	SS10	Solid	03/13/23 12:05	03/14/23 08:17	0.5
890-4300-11	SS11	Solid	03/13/23 12:10	03/14/23 08:17	0.5
890-4300-12	SS12	Solid	03/13/23 12:20	03/14/23 08:17	0.5
890-4300-13	SS13	Solid	03/13/23 12:25	03/14/23 08:17	0.5

Chain of Custody

eurofins:	Fins Environment Testing Xenco	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Work Order No: www.xenco.com Page of 2
ject Manager:	Ben Belill	Bill to: (if different) Garrett Green	Work Order Comments
mpany Name:	Ensolum	Company Name: XTO Energy	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
dress:	3122 National Parks Hwy	Address: 3104 E. Green St.	State of Project:
/, State ZIP:	Carlsbad, NM 88220	City, State ZIP: Carlsbad, NM 88220	Reporting: Level III Level III PST/UST TRRP Level IV
ne.	303-887-2946	Email: Garrett.Green@ExxonMobil.com	Deliverables: EDD

Phone:

City, State ZIP:

Company Name: Project Manager:

Project Name:	Remuda 500	0	Turn /	Turn Around	_			ANALYSIS REQUEST	Preservative Codes
Project Number	03C1558187	7	✓ Routine	Rush	Pres.				None: NO DI Water: H ₂ O
Project Location:			Due Date:						Cool: Cool MeOH: Me
	Connor Whitman	nan	TAT starts the day received by	day received	Ý				HCL: HC HNO3: HN
PO#			the lab, if received by 4:30pm	ived by 4:30pr	L				H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT 16	Semp Blank:	No No	Wet Ice:	(Yes) No	nete	0)			H₃PO₄; HP
Samples Received Intact:		Thermometer ID:	1	[BOM	ıran	300.6			NaHSO4: NABIS
∀	No A	Correction Factor:	tor:	6.0	Pa	A: 3		890-4300 Chain of Custody	Na ₂ S ₂ O ₃ : NaSO ₃
*	No.	Temperature Reading:	eading:	Ö	!	(EP			Zn Acetate+NaOH: Zn
_		Corrected Temperature	perature:	0,0		DES	15)		NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Date Sampled	ă	Depth Comp	b/ # of	CHLORI	TPH (80	BTEX (8	Sample Comments
SS01	S	3/13/2023	10:25	.5' Grab/	ıb/ 1	×	×	×	Incident ID:
SS02	S	3/13/2023	10:30	.5' Grab/	b/ 1	×	×	×	nAPP2303854000
SS03	S	3/13/2023	10:35	.5' Grab/	1	×	×	×	Cost Center:
SS04	S	3/13/2023	10:40	.5' Grab/	b/ 1	×	×	×	1067601001
SS05	S	3/13/2023	11:00	.5' Grab/	1	×	×	*	AFE:
SS06	S	3/13/2023	11:05	.5' Grab/	1	×	×	×	
SS07	ဟ	3/13/2023	11:10	.5' Grab/	1	×	×	×	
\$508	6	3/13/2023	11:15	.5' Grabi	-	×	×	×	
SS09	တ	3/13/2023	11:50	.5' Grab/	1	×	×	×	
SS10	S	3/13/2023	12:05	.5' Grab/	1	×	×	×	
Total 200.7 / 6010 200.	200.8 / 6020:	8RC	8RCRA 13PPM Texas 11 Al Sb As Ba Be B	/ Texas 1	AI SI	As E	за Ве	Cd Ca Cr Co Cu Fe Pb	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed) to be analyz	ed	TCLP / SPLP 6010: 8RCRA	P 6010 8		Sb As Ba Be	Ba	Cd Cr Co Cu Pb Mn Mo	Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors of sarvice. 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 a of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These term	relinquishment of e only for the cost of \$85.00 will be a	samples constituted in samples and samples and samples and samples are samples	ites a valid purch hall not assume a ject and a charg	hase order from any responsibi e of \$5 for eac	client con ity for any n sample s	npany to I losses or ubmitted	Eurofins expens to Eurof		It assigns standard terms and conditions e due to circumstances beyond the control will be enforced unless previously negotiated.
Relinquished by: (Signature)	re)	Received	Received by: (Signature)	re)		Date/Time	Time	Relinquished by: (Signature)	Received by: (Signature) Date/Time
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Revised Date: 08/25/2020 Rev. 2020.2

eurofins: **Environment Testing**

City, State ZIP:

Carlsbad, NM 88220

City, State ZIP:

Carlsbad, NM 88220 3104 E. Green St. Company Name: Bill to: (If different)

XTO Energy

Garrett Green

3122 National Parks Hwy

Company Name: Project Manager:

Ensolum Ben Belill

Chain of Custody

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

Work Older No.
www.xenco.com Page 2 of 2
Work Order Comments
rogram: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
teporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV☐
Deliverables: EDD ADaPT COther:

Phone: 303-88 Project Name: Project Number:	303-887-2946 Remuda 500 03C1558187	a 500 58187	Email: Turr Routine	Email: Garrett.Green@ExxonMobil.com Turn Around Pres. Code	Pres.	xonMc	bil.co] 3		ANA	ANALYSIS RE		JEST	200			Non	6 1	Preservative Codes None: NO DI Water: I
Project Location:			Due Date:														_	Cool: Cool	MeOH: Me
Sampler's Name:	Connor Whitman	Vhitman	TAT starts th	TAT starts the day received by	×							_						HCL: HC	HNO3: HN
PO#			the lab, if re-	the lab, if received by 4:30pm					_								_	H ₂ S0 ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	C Yes No	Wet ice:	Yes No	nete	0)												H₃PO₄; HP	
Samples Received Intact:	Yes No	Thermometer JD:	terub		ıran	300.	_											NaHSO ₄ : NABIS	BIS
	0	N/A Conection Factor	Factor:		Pa	PA: 3												Na ₂ S ₂ O ₃ : NaSO ₃	SO ₃
×.	N _O		Temperaure Reading:			(EF)									N.	Zn Acetate+NaOH: Zn	VaOH: Zn
		Corrected	Corrected Temperature:			DES	15)	021										NaOH+Ascorbic Acid: SAPC	rbic Acid: S/
Sample Identification		Matrix Sampled	Time Sampled	Depth Grab/	b/ # of ip Cont	CHLOR	TPH (80	втех (8										Sample	Sample Comments
SS11		S 3/13/2023	23 12:10	.5' Grab/	<u>ь</u>	×	×	×	_	-								Incident ID:	
SS12		S 3/13/2023		.5' Grab/	b/ 1	×	×	×		-								nAPP.	nAPP2303854000
SS13		S 3/13/2023	23 12:25	.5' Grab/	b/ 1	×	×	×		_			-					Cost Center:	1.7
1		-																106	1067601001
																		AFE:	
													-						
					-		[-	1											
					1	_	M	-											
					_	1	7		_	-		-	F						
Total 200.7 / 6010 2	200.8 / 6020:		8RCRA 13PPM	M Texas 11	Al Sb	As	Ba Be	ω	Cd Ca C	Cr Co	Cu Fe I	Pb Mg I	Mg Mn Mo Ni K Se Ag	Z.	Se /	Ag Si	SiO ₂ Na Sr	Sr Tl Sn	TI Sn U V Zn
Met	al(s) to be a		TCLP / S	TCLP / SPLP 6010: 8RCRA Sb As Ba Be	RCRA	Sb A	s Ba	Ве С	Cd Cr Co Cu Pb Mn Mo	o Cu F	b Mn	11	Ni Se Ag Ti U	ゴし		Hg: 1	631/2	Hg: 1631 / 245.1 / 7470	0 /7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco a minimum charge of \$45 00 will be anotified 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.	and relinquishn	nent of samples co	nstitutes a valid purant shall not assum	chase order from eany responsibilities of \$5 for each	client co	mpany t	o Eurofii or expei	ns Xenco	, its affiliat urred by the	es and su client if t analyze	bcontracto such losses	ors. It assign s are due to rms will be	It assigns standard terms and conditions of due to circumstances beyond the control will be enforced unless previously negotic	ard term tances b	s and co eyond the	andition ne contr	s ol iated.		
Relinquished by: (Signature)	ature)	, Recei	Received by: (Signature)	ture)		Date	Date/Time		Relin	quished	Relinquished by: (Signature)	gnature)		Rece	eived b	y: (Si	Received by: (Signature)	e)	Date/Time
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3/31/2023 (Rev. 1)

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4300-1 SDG Number: 03C1558187

Login Number: 4300 **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.	True	
Sample bottles are completely filled.	N/A	CHECK NCM
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4300-1 SDG Number: 03C1558187

Login Number: 4300 **List Source: Eurofins Midland** List Creation: 03/15/23 11:19 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").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 4/5/2023 9:08:01 PM

JOB DESCRIPTION

Remuda 500 SDG NUMBER 03C1558187

JOB NUMBER

890-4396-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 4/5/2023 9:08:01 PM

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

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

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Client: Ensolum
Project/Site: Remuda 500
Laboratory Job ID: 890-4396-1
SDG: 03C1558187

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	20
Lab Chronicle	23
Certification Summary	26
Method Summary	27
Sample Summary	28
Chain of Custody	29
Receipt Checklists	30

Definitions/Glossary

Job ID: 890-4396-1 Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description**

*+ LCS and/or LCSD is outside acceptance limits, high biased. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: Remuda 500 SDG: 03

Job ID: 890-4396-1 SDG: 03C1558187

Job ID: 890-4396-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4396-1

Receipt

The samples were received on 3/23/2023 3:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-4396-1), PH02 (890-4396-2), PH03 (890-4396-3), PH04 (890-4396-4), PH05 (890-4396-5), PH06 (890-4396-6), PH07 (890-4396-7) and PH08 (890-4396-8).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-50193/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49712 and analytical batch 880-49689 was outside the upper control limits.

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

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

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

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49771 and analytical batch 880-49783 was outside the upper control limits.

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

HPLC/IC

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

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Eurofins Carlsbad 4/5/2023

Lab Sample ID: 890-4396-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-4396-1

 Project/Site: Remuda 500
 SDG: 03C1558187

Client Sample ID: PH01

Date Collected: 03/23/23 10:30 Date Received: 03/23/23 15:48

Sample Depth: 2'

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		04/03/23 13:16	04/05/23 12:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 12:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 12:53	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399	mg/Kg		04/03/23 13:16	04/05/23 12:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 12:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/03/23 13:16	04/05/23 12:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			04/03/23 13:16	04/05/23 12:53	1
1,4-Difluorobenzene (Surr)	86		70 - 130			04/03/23 13:16	04/05/23 12:53	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
				1114	D	Duamanad	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	Unit	U	Prepared	Allalyzeu	D uo
Analyte Total BTEX	<0.00399		0.00399	mg/Kg		Prepared	04/05/23 17:13	1
Total BTEX	<0.00399	U	0.00399			Prepared		1
Total BTEX Method: SW846 8015 NM - Diese	<0.00399	ics (DRO) (0.00399 GC)	mg/Kg			04/05/23 17:13	1
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00399 el Range Organ Result	ics (DRO) (C	0.00399 GC)	mg/Kg	<u>D</u>	Prepared	04/05/23 17:13 Analyzed	1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese	<0.00399	ics (DRO) (C	0.00399 GC)	mg/Kg			04/05/23 17:13	1
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00399 el Range Organ Result <49.8	ics (DRO) ((Qualifier	0.00399 GC) RL 49.8	mg/Kg			04/05/23 17:13 Analyzed	1
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	<0.00399 el Range Organ Result <49.8 sel Range Organ	ics (DRO) ((Qualifier	0.00399 GC) RL 49.8	mg/Kg			04/05/23 17:13 Analyzed	1
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	<0.00399 el Range Organ Result <49.8 sel Range Organ	ics (DRO) ((Qualifier Unics (DRO)) Qualifier	0.00399 GC) RL 49.8	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	04/05/23 17:13 Analyzed 03/29/23 14:59	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	<0.00399 el Range Organ Result <49.8 sel Range Organ Result	ics (DRO) ((Qualifier Unics (DRO)) Qualifier	0.00399 GC) RL 49.8 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	04/05/23 17:13 Analyzed 03/29/23 14:59 Analyzed	Dil Fac Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00399 el Range Organ Result <49.8 sel Range Organ Result	ics (DRO) ((Qualifier Umics (DRO)) Qualifier U*+	0.00399 GC) RL 49.8 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	04/05/23 17:13 Analyzed 03/29/23 14:59 Analyzed	Dil Fac Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00399 el Range Organ Result <49.8 sel Range Orga Result <49.8	ics (DRO) ((Qualifier Umics (DRO)) Qualifier U*+	0.00399 RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 03/28/23 10:11	04/05/23 17:13 Analyzed 03/29/23 14:59 Analyzed 03/29/23 00:35	Dil Fac Dil Fac 1
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	<0.00399 el Range Organ Result <49.8 sel Range Orga Result <49.8	ics (DRO) (CQualifier Umics (DRO) Qualifier U*+	0.00399 RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 03/28/23 10:11	04/05/23 17:13 Analyzed 03/29/23 14:59 Analyzed 03/29/23 00:35	Dil Fac Dil Fac 1
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)	<0.00399 el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8	ics (DRO) (CQualifier Umics (DRO) Qualifier U*+	0.00399 RL 49.8 (GC) RL 49.8 49.8	unit mg/Kg Unit mg/Kg unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 03/28/23 10:11 03/28/23 10:11	04/05/23 17:13 Analyzed 03/29/23 14:59 Analyzed 03/29/23 00:35 03/29/23 00:35	Dil Fac Dil Fac 1
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)	<0.00399 el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8 <49.8	ics (DRO) (CQualifier Umics (DRO) Qualifier U*+	0.00399 RL 49.8 (GC) RL 49.8 49.8 49.8	unit mg/Kg Unit mg/Kg unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 03/28/23 10:11 03/28/23 10:11	04/05/23 17:13 Analyzed 03/29/23 14:59 Analyzed 03/29/23 00:35 03/29/23 00:35	Dil Fac Dil Fac 1 Dil Fac 1

Client Sample ID: PH02

Date Collected: 03/23/23 10:20 Date Received: 03/23/23 15:48

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

1990

Sample Depth: 2'

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 13:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 13:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 13:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/03/23 13:16	04/05/23 13:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 13:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/03/23 13:16	04/05/23 13:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/03/23 13:16	04/05/23 13:19	1

RL

25.1

Unit

mg/Kg

D

Prepared

Analyzed

04/01/23 02:33

Lab Sample ID: 890-4396-2

Dil Fac

Matrix: Solid

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Job ID: 890-4396-1

Matrix: Solid

Lab Sample ID: 890-4396-2

Client: Ensolum SDG: 03C1558187 Project/Site: Remuda 500

Client Sample ID: PH02

Date Collected: 03/23/23 10:20 Date Received: 03/23/23 15:48

Sample Depth: 2'

Method: SW846 8021B -	Volatile Organi	c Compounds	(GC)	(Continued)
			\- /	(

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	89	70 - 130	04/03/23 13:16	04/05/23 13:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/05/23 17:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/29/23 14:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8	mg/Kg		03/28/23 10:11	03/29/23 00:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8	mg/Kg		03/28/23 10:11	03/29/23 00:57	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/28/23 10:11	03/29/23 00:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103	70 - 130	03/28/23 10:11	03/29/23 00:57	1
o-Terphenyl	118	70 - 130	03/28/23 10:11	03/29/23 00:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275	4.97	mg/Kg			04/01/23 02:38	1

Client Sample ID: PH03 Lab Sample ID: 890-4396-3

Date Collected: 03/23/23 09:55 Date Received: 03/23/23 15:48

Sample Depth: 2'

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

momous official social	no organio comp	Janua (Ja	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 13:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 13:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 13:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/03/23 13:16	04/05/23 13:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 13:46	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/03/23 13:16	04/05/23 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			04/03/23 13:16	04/05/23 13:46	1
1 4 Diffuorabanzana (Surr)	0.7		70 120			04/02/22 12:16	04/05/22 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/03/23 13:16	04/05/23 13:46	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/03/23 13:16	04/05/23 13:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/05/23 17:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/29/23 14:59	1

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Matrix: Solid

Lab Sample ID: 890-4396-3

Job ID: 890-4396-1

Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: PH03

Date Collected: 03/23/23 09:55 Date Received: 03/23/23 15:48

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *+	50.0	mg/Kg		03/28/23 10:11	03/29/23 01:18	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *+	50.0	mg/Kg		03/28/23 10:11	03/29/23 01:18	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/23 10:11	03/29/23 01:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			03/28/23 10:11	03/29/23 01:18	1
o-Terphenyl	109		70 - 130			03/28/23 10:11	03/29/23 01:18	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	243	-	4.95	mg/Kg			04/01/23 02:51	

Client Sample ID: PH04 Lab Sample ID: 890-4396-4 Date Collected: 03/23/23 10:05 Matrix: Solid

Date Received: 03/23/23 15:48

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/03/23 13:16	04/05/23 14:12	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/03/23 13:16	04/05/23 14:12	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/03/23 13:16	04/05/23 14:12	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/03/23 13:16	04/05/23 14:12	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/03/23 13:16	04/05/23 14:12	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/03/23 13:16	04/05/23 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			04/03/23 13:16	04/05/23 14:12	1
1,4-Difluorobenzene (Surr)	94		70 - 130			04/03/23 13:16	04/05/23 14:12	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
T-1-1 DTEV	<0.00396						04/05/00 45 40	
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/05/23 17:13	1
•				mg/Kg			04/05/23 17:13	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					·
•	el Range Organ Result	ics (DRO) (GC)	mg/Kg	<u>D</u>	Prepared	04/05/23 17:13 Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diese Analyte	Result <50.0	ics (DRO) ((Qualifier	RL 50.0	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <50.0 sel Range Organ	ics (DRO) ((Qualifier	RL 50.0	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <50.0 sel Range Organ	Qualifier Unics (DRO) Qualifier Qualifier	RL 50.0	Unit mg/Kg			Analyzed 03/29/23 14:59	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	el Range Organ Result <50.0 sel Range Orga Result	Qualifier Unics (DRO) Qualifier Qualifier	GC) RL 50.0 (GC) RL 50.0	Unit mg/Kg		Prepared 03/28/23 10:11	Analyzed 03/29/23 14:59 Analyzed 03/29/23 01:40	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	el Range Organ Result <50.0 sel Range Orga Result	ics (DRO) ((Qualifier U nnics (DRO) Qualifier U *+	GC) RL 50.0 (GC) RL	Unit mg/Kg		Prepared	Analyzed 03/29/23 14:59 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	ics (DRO) ((Qualifier U nnics (DRO) Qualifier U*+ U*+	GC) RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/28/23 10:11 03/28/23 10:11	Analyzed 03/29/23 14:59 Analyzed 03/29/23 01:40 03/29/23 01:40	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <50.0 sel Range Orga Result <50.0	ics (DRO) ((Qualifier U nnics (DRO) Qualifier U*+ U*+	GC) RL 50.0 (GC) RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 03/28/23 10:11	Analyzed 03/29/23 14:59 Analyzed 03/29/23 01:40	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <80.0 <80.0 %Recovery	ics (DRO) ((Qualifier U nnics (DRO) Qualifier U*+ U*+	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/28/23 10:11 03/28/23 10:11 03/28/23 10:11 Prepared	Analyzed 03/29/23 14:59 Analyzed 03/29/23 01:40 03/29/23 01:40 Analyzed Analyzed	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	ics (DRO) ((Qualifier U nnics (DRO) Qualifier U*+ U*+	GC) RL 50.0 (GC) RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/28/23 10:11 03/28/23 10:11	Analyzed 03/29/23 14:59 Analyzed 03/29/23 01:40 03/29/23 01:40 03/29/23 01:40	Dil Fac Dil Fac 1 1 1

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Matrix: Solid

Lab Sample ID: 890-4396-4

Client Sample Results

 Client: Ensolum
 Job ID: 890-4396-1

 Project/Site: Remuda 500
 SDG: 03C1558187

Client Sample ID: PH04

Date Collected: 03/23/23 10:05 Date Received: 03/23/23 15:48

Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		4.98	mg/Kg			04/01/23 02:56	1

Client Sample ID: PH05 Lab Sample ID: 890-4396-5

Date Collected: 03/23/23 09:45 Date Received: 03/23/23 15:48

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		04/03/23 13:16	04/05/23 14:38	
Toluene	< 0.00199	U	0.00199	mg/Kg		04/03/23 13:16	04/05/23 14:38	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/03/23 13:16	04/05/23 14:38	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/03/23 13:16	04/05/23 14:38	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		04/03/23 13:16	04/05/23 14:38	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/03/23 13:16	04/05/23 14:38	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130			04/03/23 13:16	04/05/23 14:38	
1,4-Difluorobenzene (Surr)	88		70 - 130			04/03/23 13:16	04/05/23 14:38	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/05/23 17:13	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			03/29/23 14:59	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9	mg/Kg		03/28/23 10:11	03/29/23 02:02	•
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		03/28/23 10:11	03/29/23 02:02	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/28/23 10:11	03/29/23 02:02	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	87		70 - 130			03/28/23 10:11	03/29/23 02:02	
o-Terphenyl	104		70 - 130			03/28/23 10:11	03/29/23 02:02	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	е					
Method: EPA 300.0 - Anions, Ion Analyte	• •	hy - Solubl Qualifier	e RL	Unit	D	Prepared	Analyzed	Dil Fac

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2

2

4

9

11

13

Lab Sample ID: 890-4396-6

 Client: Ensolum
 Job ID: 890-4396-1

 Project/Site: Remuda 500
 SDG: 03C1558187

Client Sample ID: PH06

Date Collected: 03/23/23 09:30 Date Received: 03/23/23 15:48

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 15:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 15:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 15:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/03/23 13:16	04/05/23 15:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 15:04	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/03/23 13:16	04/05/23 15:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			04/03/23 13:16	04/05/23 15:04	1
1,4-Difluorobenzene (Surr)	88		70 - 130			04/03/23 13:16	04/05/23 15:04	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			04/05/23 17:13	1
- -								
Mothod: SW846 8015 NM - Dioce	I Pango Organ	ice (DDO) ((2C)					
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (0 Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/29/23 14:59	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9	Qualifier U nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			03/29/23 14:59	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U *+	RL 49.9 (GC)	mg/Kg		Prepared	03/29/23 14:59 Analyzed	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 <49.9	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/28/23 10:11	03/29/23 14:59 Analyzed 03/29/23 02:23	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 03/28/23 10:11 03/28/23 10:11	03/29/23 14:59 Analyzed 03/29/23 02:23 03/29/23 02:23	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/28/23 10:11 03/28/23 10:11	03/29/23 14:59 Analyzed 03/29/23 02:23 03/29/23 02:23 03/29/23 02:23	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/28/23 10:11 03/28/23 10:11 03/28/23 10:11 Prepared	03/29/23 14:59 Analyzed 03/29/23 02:23 03/29/23 02:23 03/29/23 02:23 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U *+ U *+ U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/28/23 10:11 03/28/23 10:11 03/28/23 10:11 Prepared 03/28/23 10:11	03/29/23 14:59 Analyzed 03/29/23 02:23 03/29/23 02:23 Analyzed 03/29/23 02:23	1 Dil Fac 1 1 1 Dil Fac 2 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U *+ U *+ U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/28/23 10:11 03/28/23 10:11 03/28/23 10:11 Prepared 03/28/23 10:11	03/29/23 14:59 Analyzed 03/29/23 02:23 03/29/23 02:23 Analyzed 03/29/23 02:23	1 Dil Fac

Client Sample ID: PH07

Date Collected: 03/23/23 09:10

Date Received: 03/23/23 15:48

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/03/23 13:16	04/05/23 15:31	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/03/23 13:16	04/05/23 15:31	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/03/23 13:16	04/05/23 15:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/03/23 13:16	04/05/23 15:31	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/03/23 13:16	04/05/23 15:31	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/03/23 13:16	04/05/23 15:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/03/23 13:16	04/05/23 15:31	1

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Lab Sample ID: 890-4396-7

Matrix: Solid

Lab Sample ID: 890-4396-7

Job ID: 890-4396-1

Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: PH07

Date Collected: 03/23/23 09:10 Date Received: 03/23/23 15:48

Sample Depth: 2'

Method: SW846 8021B	- Volatile Organic	Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	92	70 - 130	04/03/23 13:16	04/05/23 15:31	

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	ma/Ka			04/05/23 17:13	1

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

Analyte	Result Qu	ialifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			03/30/23 12:56	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/28/23 17:17	03/29/23 18:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/28/23 17:17	03/29/23 18:11	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/28/23 17:17	03/29/23 18:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105	70 - 130	03/28/23 17:1	7 03/29/23 18:11	1
o-Terphenyl	99	70 - 130	03/28/23 17:1	7 03/29/23 18:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	371		5.05	mg/Kg			04/01/23 03:19	1

Client Sample ID: PH08 Lab Sample ID: 890-4396-8

Date Collected: 03/23/23 08:55 Date Received: 03/23/23 15:48

Sample Depth: 2'

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

Welliou. Syvo46 60216 - Voial	ne Organic Comp	ounus (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 15:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 15:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 15:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/03/23 13:16	04/05/23 15:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 15:57	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/03/23 13:16	04/05/23 15:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			04/03/23 13:16	04/05/23 15:57	1

4-Bromofluorobenzene (Surr)	112	70 - 130	04/03/23 13:16	04/05/23 15:57	1
1,4-Difluorobenzene (Surr)	84	70 - 130	04/03/23 13:16	04/05/23 15:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/05/23 17:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/30/23 12:56	1

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Matrix: Solid

Client Sample Results

 Client: Ensolum
 Job ID: 890-4396-1

 Project/Site: Remuda 500
 SDG: 03C1558187

Client Sample ID: PH08

Lab Sample ID: 890-4396-8

Matrix: Solid

Date Collected: 03/23/23 08:55 Date Received: 03/23/23 15:48

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		03/28/23 17:17	03/29/23 18:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/28/23 17:17	03/29/23 18:32	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/28/23 17:17	03/29/23 18:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			03/28/23 17:17	03/29/23 18:32	1
o-Terphenyl	101		70 - 130			03/28/23 17:17	03/29/23 18:32	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Surrogate Summary

 Client: Ensolum
 Job ID: 890-4396-1

 Project/Site: Remuda 500
 SDG: 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4396-1	PH01	93	86	
890-4396-1 MS	PH01	94	105	
890-4396-1 MSD	PH01	95	103	
890-4396-2	PH02	104	89	
890-4396-3	PH03	111	97	
890-4396-4	PH04	110	94	
890-4396-5	PH05	106	88	
890-4396-6	PH06	115	88	
890-4396-7	PH07	101	92	
890-4396-8	PH08	112	84	
LCS 880-50193/1-A	Lab Control Sample	101	78	
LCSD 880-50193/2-A	Lab Control Sample Dup	102	97	
MB 880-50193/5-A	Method Blank	63 S1-	85	

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
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-26267-A-10-B MS	Matrix Spike	117	101	
880-26267-A-10-C MSD	Matrix Spike Duplicate	105	91	
890-4387-A-7-B MS	Matrix Spike	127	135 S1+	
890-4387-A-7-C MSD	Matrix Spike Duplicate	116	123	
90-4396-1	PH01	97	118	
390-4396-2	PH02	103	118	
390-4396-3	PH03	92	109	
390-4396-4	PH04	90	108	
390-4396-5	PH05	87	104	
90-4396-6	PH06	91	109	
390-4396-7	PH07	105	99	
390-4396-8	PH08	106	101	
_CS 880-49712/2-A	Lab Control Sample	139 S1+	165 S1+	
_CS 880-49771/2-A	Lab Control Sample	123	115	
_CSD 880-49712/3-A	Lab Control Sample Dup	127	149 S1+	
LCSD 880-49771/3-A	Lab Control Sample Dup	118	113	
MB 880-49712/1-A	Method Blank	124	153 S1+	
MB 880-49771/1-A	Method Blank	132 S1+	119	
Surrogate Legend				
1CO = 1-Chlorooctane				

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-4396-1 Project/Site: Remuda 500 SDG: 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50193/5-A

Matrix: Solid Analysis Batch: 50361 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 50193

	III D	141.0						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/03/23 13:16	04/05/23 12:26	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	04/03/23 13:16	04/05/23 12:26	1
1.4-Difluorobenzene (Surr)	85		70 - 130	04/03/23 13:16	04/05/23 12:26	1

Lab Sample ID: LCS 880-50193/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 50361

Prep Type: Total/NA Prep Batch: 50193 LCS LCS Spike Added Result Qualifier Unit %Rec Limits

Analyte Benzene 0.100 0.08752 mg/Kg 88 70 - 130 Toluene 0.100 0.09671 mg/Kg 97 70 - 130 0.100 0.09057 Ethylbenzene mg/Kg 91 70 - 130 0.200 0.1752 88 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.08957 70 - 130 o-Xylene mg/Kg 90

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: LCSD 880-50193/2-A

Matrix: Solid

Analysis Batch: 50361

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50193

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1092		mg/Kg		109	70 - 130	22	35
Toluene	0.100	0.1119		mg/Kg		112	70 - 130	15	35
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.1996		mg/Kg		100	70 - 130	13	35
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	15	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1.4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-4396-1 MS

Matrix: Solid

Analysis Batch: 50361

Client Sample ID: PH01 Prep Type: Total/NA

Prep Batch: 50193

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.09335		mg/Kg	_	94	70 - 130	
Toluene	<0.00200	U	0.0998	0.09259		mg/Kg		93	70 - 130	

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QC Sample Results

 Client: Ensolum
 Job ID: 890-4396-1

 Project/Site: Remuda 500
 SDG: 03C1558187

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

Lab Sample ID: 890-4396-1 MSClient Sample ID: PH01Matrix: SolidPrep Type: Total/NAAnalysis Batch: 50361Prep Batch: 50193

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0998	0.08958		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1736		mg/Kg		87	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.08834		mg/Kg		89	70 - 130	
	***	440								

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-4396-1 MSD

Matrix: Solid

Analysis Batch: 50361

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 50193

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.100 98 Benzene <0.00200 U 0.09826 mg/Kg 70 - 130 5 35 Toluene <0.00200 U 0.100 0.09578 95 70 - 130 35 mg/Kg 3 Ethylbenzene <0.00200 U 0.100 0.09321 mg/Kg 93 70 - 130 35 4

•							
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1814	mg/Kg	90	7
o-Xylene	<0.00200	U	0.100	0.09279	mg/Kg	92	7
	MSD	MSD					
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	95		70 - 130				

70 - 130

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

103

1,4-Difluorobenzene (Surr)

Lab Sample ID: MB 880-49712/1-A

Matrix: Solid

Prep Type: Total/NA

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Analysis Batch: 49689

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/28/23 10:11	03/28/23 21:43	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/28/23 10:11	03/28/23 21:43	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/23 10:11	03/28/23 21:43	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	03/28/23 10:11	03/28/23 21:43	1
o-Terphenyl	153	S1+	70 - 130	03/28/23 10:11	03/28/23 21:43	1

o-Terphenyl 153 S1+ 70 - 130 03/28/23 10:11 03/28/23 21:43 1

Lab Sample ID: LCS 880-49712/2-A Client Sample ID: Lab Control Sample

Matrix: Solid
Analysis Batch: 49689

Spike LCS LCS

*Rec

*Rec

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	1940	*+	mg/Kg		194	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	2086	*+	mg/Kg		209	70 - 130		
C10-C28)									

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70 - 130

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Job ID: 890-4396-1

Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

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

Lab Sample ID: LCS 880-49712/2-A

Lab Sample ID: LCSD 880-49712/3-A

Matrix: Solid

Analysis Batch: 49689

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49712

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 139 S1+ 70 - 130 o-Terphenyl 165 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 49689 Prep Batch: 49712

Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1829 183 70 - 1306 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1842 *+ 184 mg/Kg 70 - 13012 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 127 149 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: 890-4387-A-7-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 49689

Prep Type: Total/NA

Prep Batch: 49712

MS MS Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.9 U *+ 998 1168 mg/Kg 114 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U*+ 998 1219 mg/Kg 120 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 127 70 - 130 o-Terphenyl 135 S1+

Lab Sample ID: 890-4387-A-7-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 49689

Prep Type: Total/NA

Prep Batch: 49712 RPD

Sample Sample MSD MSD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U *+ 999 1099 Gasoline Range Organics <49.9 107 70 - 130 6 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U*+ 999 1195 mg/Kg 118 70 - 130 2 20

C10-C28)

MSD MSD

Qualifier Surrogate %Recovery Limits 1-Chlorooctane 116 70 - 130 123 70 - 130 o-Terphenyl

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RPD

Client: Ensolum Job ID: 890-4396-1 SDG: 03C1558187 Project/Site: Remuda 500

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

MD MD

119

Lab Sample ID: MB 880-49771/1-A

Matrix: Solid Analysis Batch: 49783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49771

Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg		03/28/23 17:17	03/29/23 08:47	1
<50.0	U	50.0	mg/Kg		03/28/23 17:17	03/29/23 08:47	1
<50.0	U	50.0	mg/Kg		03/28/23 17:17	03/29/23 08:47	1
MB	МВ						
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
132	S1+	70 - 130			03/28/23 17:17	03/29/23 08:47	1
	<50.0 <50.0 <50.0 <i>MB</i> %Recovery	Result Qualifier	<50.0 U 50.0 <50.0 U 50.0 <50.0 U 50.0 MB MB %Recovery Qualifier Limits	<50.0 U 50.0 mg/Kg <50.0 U 50.0 mg/Kg <50.0 U 50.0 mg/Kg MB MB %Recovery Qualifier Limits	<50.0	<50.0	<50.0

70 - 130

Lab Sample ID: LCS 880-49771/2-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 49783

Client Sample ID: Lab Control Sample

03/29/23 08:47

03/28/23 17:17

Prep Type: Total/NA

Prep Batch: 49771

LCS LCS Spike Added Result Qualifier Analyte Unit D %Rec Limits 85 Gasoline Range Organics 1000 846.1 mg/Kg 70 - 130 (GRO)-C6-C10 1000 801.6 Diesel Range Organics (Over mg/Kg 80 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	123	70 - 130
o-Terphenyl	115	70 - 130

Lab Sample ID: LCSD 880-49771/3-A

Matrix: Solid Analysis Batch: 49783

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

Prep Batch: 49771

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	820.0		mg/Kg		82	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	833.0		mg/Kg		83	70 - 130	4	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery G	(ualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 880-26267-A-10-B MS

Matrix: Solid

Analysis Batch: 49783

Client	Sample	ID: Ma	itrix S	nike

Prep Type: Total/NA

Prep Batch: 49771

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	998	1118		mg/Kg		109	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	998	833.6		mg/Kg		81	70 - 130	
C10-C28)										

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Job ID: 890-4396-1

Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

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

Lab Sample ID: 880-26267-A-10-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 49783

	Prep Type: Total/NA
	Prep Batch: 49771
MS MS	

%Recovery Surrogate Qualifier Limits 1-Chlorooctane 117 70 - 130 o-Terphenyl 101 70 - 130

Lab Sample ID: 880-26267-A-10-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 49783	Prep Batch: 49771

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.9 U 999 1004 98 70 - 13011 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 <49.9 U 748.7 mg/Kg 72 70 - 13020 11 C10-C28) MSD MSD

Surrogate %Recovery Qualifier Limits 105 70 - 130 1-Chlorooctane 91 70 - 130 o-Terphenyl

MR MR

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50012/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50068

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	ma/Ka			04/01/23 01:23	1

Lab Sample ID: LCS 880-50012/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50068

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 	250	248.9		ma/Ka		100	90 - 110	

Lab Sample ID: LCSD 880-50012/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50068

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	246.9		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-4396-2 MS Client Sample ID: PH02 **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 50068

Spike MS MS %Rec Sample Sample

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 275 500.9 248 mg/Kg 91 90 - 110

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QC Sample Results

 Client: Ensolum
 Job ID: 890-4396-1

 Project/Site: Remuda 500
 SDG: 03C1558187

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4396-2 MSD

Matrix: Solid

Client Sample ID: PH02

Prep Type: Soluble

Analysis Batch: 50068

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	275		248	499.5		mg/Kg		91	90 - 110	0	20

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QC Association Summary

 Client: Ensolum
 Job ID: 890-4396-1

 Project/Site: Remuda 500
 SDG: 03C1558187

GC VOA

Prep Batch: 50193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4396-1	PH01	Total/NA	Solid	5035	
890-4396-2	PH02	Total/NA	Solid	5035	
890-4396-3	PH03	Total/NA	Solid	5035	
890-4396-4	PH04	Total/NA	Solid	5035	
890-4396-5	PH05	Total/NA	Solid	5035	
890-4396-6	PH06	Total/NA	Solid	5035	
890-4396-7	PH07	Total/NA	Solid	5035	
890-4396-8	PH08	Total/NA	Solid	5035	
MB 880-50193/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50193/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50193/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4396-1 MS	PH01	Total/NA	Solid	5035	
890-4396-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 50361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4396-1	PH01	Total/NA	Solid	8021B	50193
890-4396-2	PH02	Total/NA	Solid	8021B	50193
890-4396-3	PH03	Total/NA	Solid	8021B	50193
890-4396-4	PH04	Total/NA	Solid	8021B	50193
890-4396-5	PH05	Total/NA	Solid	8021B	50193
890-4396-6	PH06	Total/NA	Solid	8021B	50193
890-4396-7	PH07	Total/NA	Solid	8021B	50193
890-4396-8	PH08	Total/NA	Solid	8021B	50193
MB 880-50193/5-A	Method Blank	Total/NA	Solid	8021B	50193
LCS 880-50193/1-A	Lab Control Sample	Total/NA	Solid	8021B	50193
LCSD 880-50193/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50193
890-4396-1 MS	PH01	Total/NA	Solid	8021B	50193
890-4396-1 MSD	PH01	Total/NA	Solid	8021B	50193

Analysis Batch: 50432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4396-1	PH01	Total/NA	Solid	Total BTEX	
890-4396-2	PH02	Total/NA	Solid	Total BTEX	
890-4396-3	PH03	Total/NA	Solid	Total BTEX	
890-4396-4	PH04	Total/NA	Solid	Total BTEX	
890-4396-5	PH05	Total/NA	Solid	Total BTEX	
890-4396-6	PH06	Total/NA	Solid	Total BTEX	
890-4396-7	PH07	Total/NA	Solid	Total BTEX	
890-4396-8	PH08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 49689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4396-1	PH01	Total/NA	Solid	8015B NM	49712
890-4396-2	PH02	Total/NA	Solid	8015B NM	49712
890-4396-3	PH03	Total/NA	Solid	8015B NM	49712
890-4396-4	PH04	Total/NA	Solid	8015B NM	49712
890-4396-5	PH05	Total/NA	Solid	8015B NM	49712
890-4396-6	PH06	Total/NA	Solid	8015B NM	49712

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QC Association Summary

 Client: Ensolum
 Job ID: 890-4396-1

 Project/Site: Remuda 500
 SDG: 03C1558187

GC Semi VOA (Continued)

Analysis Batch: 49689 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49712/1-A	Method Blank	Total/NA	Solid	8015B NM	49712
LCS 880-49712/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49712
LCSD 880-49712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49712
890-4387-A-7-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49712
890-4387-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49712

Prep Batch: 49712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4396-1	PH01	Total/NA	Solid	8015NM Prep	
890-4396-2	PH02	Total/NA	Solid	8015NM Prep	
890-4396-3	PH03	Total/NA	Solid	8015NM Prep	
890-4396-4	PH04	Total/NA	Solid	8015NM Prep	
890-4396-5	PH05	Total/NA	Solid	8015NM Prep	
890-4396-6	PH06	Total/NA	Solid	8015NM Prep	
MB 880-49712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4387-A-7-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4387-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 49771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4396-7	PH07	Total/NA	Solid	8015NM Prep	
890-4396-8	PH08	Total/NA	Solid	8015NM Prep	
MB 880-49771/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49771/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26267-A-10-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26267-A-10-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4396-7	PH07	Total/NA	Solid	8015B NM	49771
890-4396-8	PH08	Total/NA	Solid	8015B NM	49771
MB 880-49771/1-A	Method Blank	Total/NA	Solid	8015B NM	49771
LCS 880-49771/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49771
LCSD 880-49771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49771
880-26267-A-10-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49771
880-26267-A-10-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49771

Analysis Batch: 49858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4396-1	PH01	Total/NA	Solid	8015 NM	
890-4396-2	PH02	Total/NA	Solid	8015 NM	
890-4396-3	PH03	Total/NA	Solid	8015 NM	
890-4396-4	PH04	Total/NA	Solid	8015 NM	
890-4396-5	PH05	Total/NA	Solid	8015 NM	
890-4396-6	PH06	Total/NA	Solid	8015 NM	
890-4396-7	PH07	Total/NA	Solid	8015 NM	
890-4396-8	PH08	Total/NA	Solid	8015 NM	

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QC Association Summary

 Client: Ensolum
 Job ID: 890-4396-1

 Project/Site: Remuda 500
 SDG: 03C1558187

HPLC/IC

Leach Batch: 50012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4396-1	PH01	Soluble	Solid	DI Leach	
890-4396-2	PH02	Soluble	Solid	DI Leach	
890-4396-3	PH03	Soluble	Solid	DI Leach	
890-4396-4	PH04	Soluble	Solid	DI Leach	
890-4396-5	PH05	Soluble	Solid	DI Leach	
890-4396-6	PH06	Soluble	Solid	DI Leach	
890-4396-7	PH07	Soluble	Solid	DI Leach	
890-4396-8	PH08	Soluble	Solid	DI Leach	
MB 880-50012/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50012/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50012/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4396-2 MS	PH02	Soluble	Solid	DI Leach	
890-4396-2 MSD	PH02	Soluble	Solid	DI Leach	

Analysis Batch: 50068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4396-1	PH01	Soluble	Solid	300.0	50012
890-4396-2	PH02	Soluble	Solid	300.0	50012
890-4396-3	PH03	Soluble	Solid	300.0	50012
890-4396-4	PH04	Soluble	Solid	300.0	50012
890-4396-5	PH05	Soluble	Solid	300.0	50012
890-4396-6	PH06	Soluble	Solid	300.0	50012
890-4396-7	PH07	Soluble	Solid	300.0	50012
890-4396-8	PH08	Soluble	Solid	300.0	50012
MB 880-50012/1-A	Method Blank	Soluble	Solid	300.0	50012
LCS 880-50012/2-A	Lab Control Sample	Soluble	Solid	300.0	50012
LCSD 880-50012/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50012
890-4396-2 MS	PH02	Soluble	Solid	300.0	50012
890-4396-2 MSD	PH02	Soluble	Solid	300.0	50012

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Client: Ensolum Job ID: 890-4396-1 SDG: 03C1558187 Project/Site: Remuda 500

Client Sample ID: PH01 Lab Sample ID: 890-4396-1

Date Collected: 03/23/23 10:30 Matrix: Solid Date Received: 03/23/23 15:48

	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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 12:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50432	04/05/23 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			49858	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 00:35	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50012	03/31/23 09:26	KS	EET MIC
Soluble	Analysis	300.0		5	50 mL	50 mL	50068	04/01/23 02:33	SMC	EET MID

Client Sample ID: PH02 Lab Sample ID: 890-4396-2

Date Collected: 03/23/23 10:20 Matrix: Solid Date Received: 03/23/23 15:48

	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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50432	04/05/23 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			49858	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 00:57	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50012	03/31/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50068	04/01/23 02:38	SMC	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-4396-3 Date Collected: 03/23/23 09:55 **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			4.99 g	5 mL	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50432	04/05/23 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			49858	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 01:18	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	50012	03/31/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50068	04/01/23 02:51	SMC	EET MID

Client Sample ID: PH04 Lab Sample ID: 890-4396-4

Date Collected: 03/23/23 10:05 **Matrix: Solid** Date Received: 03/23/23 15:48

	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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50432	04/05/23 17:13	SM	EET MID

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Date Received: 03/23/23 15:48

Project/Site: Remuda 500

Client: Ensolum Job ID: 890-4396-1 SDG: 03C1558187

Lab Sample ID: 890-4396-4

Client Sample ID: PH04 Date Collected: 03/23/23 10:05 Date Received: 03/23/23 15:48

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			49858	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 01:40	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50012	03/31/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50068	04/01/23 02:56	SMC	EET MID

Lab Sample ID: 890-4396-5

Client Sample ID: PH05 Date Collected: 03/23/23 09:45 **Matrix: Solid**

Date Received: 03/23/23 15:48

	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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 14:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50432	04/05/23 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			49858	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 02:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50012	03/31/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50068	04/01/23 03:09	SMC	EET MID

Client Sample ID: PH06 Lab Sample ID: 890-4396-6 Date Collected: 03/23/23 09:30 **Matrix: Solid**

Date Received: 03/23/23 15:48

	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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 15:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50432	04/05/23 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			49858	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 02:23	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50012	03/31/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50068	04/01/23 03:14	SMC	EET MID

Client Sample ID: PH07 Lab Sample ID: 890-4396-7

Date Collected: 03/23/23 09:10 Date Received: 03/23/23 15:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 15:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50432	04/05/23 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			49858	03/30/23 12:56	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	49771 49783	03/28/23 17:17 03/29/23 18:11	AJ SM	EET MID EET MID

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Page 24 of 31

Matrix: Solid

Client: Ensolum

Project/Site: Remuda 500

Job ID: 890-4396-1 SDG: 03C1558187

Client Sample ID: PH07 Lab Sample ID: 890-4396-7

Date Collected: 03/23/23 09:10

Matrix: Solid

Date Received: 03/23/23 15:48

Batch Batch Dil Initial Final Batch Prepared

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	50012	03/31/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50068	04/01/23 03:19	SMC	EET MID

Client Sample ID: PH08 Lab Sample ID: 890-4396-8

Date Collected: 03/23/23 08:55 Matrix: Solid

Date Received: 03/23/23 15:48

	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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 15:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50432	04/05/23 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			49858	03/30/23 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49771	03/28/23 17:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49783	03/29/23 18:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50012	03/31/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50068	04/01/23 03:23	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-4396-1

 Project/Site: Remuda 500
 SDG: 03C1558187

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-23	
		ELAP	T104704400-22-25		
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av 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		

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Method Summary

 Client: Ensolum
 Job ID: 890-4396-1

 Project/Site: Remuda 500
 SDG: 03C1558187

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Ensolum

Project/Site: Remuda 500

Job ID: 890-4396-1

SDG: 03C1558187

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4396-1	PH01	Solid	03/23/23 10:30	03/23/23 15:48	2'
890-4396-2	PH02	Solid	03/23/23 10:20	03/23/23 15:48	2'
890-4396-3	PH03	Solid	03/23/23 09:55	03/23/23 15:48	2'
890-4396-4	PH04	Solid	03/23/23 10:05	03/23/23 15:48	2'
890-4396-5	PH05	Solid	03/23/23 09:45	03/23/23 15:48	2'
890-4396-6	PH06	Solid	03/23/23 09:30	03/23/23 15:48	2'
890-4396-7	PH07	Solid	03/23/23 09:10	03/23/23 15:48	2'
890-4396-8	PH08	Solid	03/23/23 08:55	03/23/23 15:48	2'

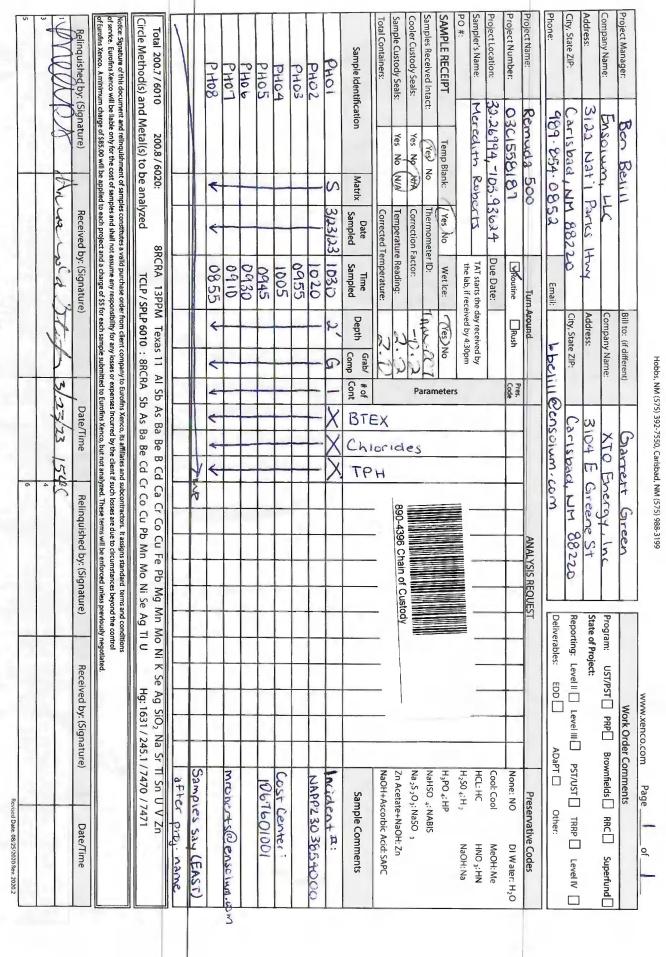
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eurofins **Environment Testing** Xenco

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

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4396-1 SDG Number: 03C1558187

Login Number: 4396 List Source: Eurofins Carlsbad

List Number: 1 Creator: Stutzman, Amanda

MS/MSDs

<6mm (1/4").

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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 N/A Sample Preservation Verified.

True

N/A

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There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4396-1 SDG Number: 03C1558187

List Source: Eurofins Midland

Login Number: 4396 List Number: 2 List Creation: 03/28/23 01:37 PM

Creator: Kramer, Jessica

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/14/2023 11:33:39 AM

JOB DESCRIPTION

Remuda 500 SDG NUMBER 03C1558187

JOB NUMBER

890-4484-1

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 4/14/2023 11:33:39 AM

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

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Client: Ensolum
Project/Site: Remuda 500
Laboratory Job ID: 890-4484-1
SDG: 03C1558187

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

2

3

4

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12

13

Definitions/Glossary

Job ID: 890-4484-1 Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description** S1-Surrogate recovery exceeds control limits, low 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

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

 Client: Ensolum
 Job ID: 890-4484-1

 Project/Site: Remuda 500
 SDG: 03C1558187

Job ID: 890-4484-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4484-1

Receipt

The sample was received on 4/7/2023 1:47 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS14 (890-4484-1).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-26842-A-1-G MS) and (880-26842-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 880-50884 and analytical batch 880-51006 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Toluene in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

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: (LCS 880-50902/2-A) and (LCSD 880-50902/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-26982-A-1-D MS) and (880-26982-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS14 (890-4484-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-50902 and analytical batch 880-50866 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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.

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4.0

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Job ID: 890-4484-1

Matrix: Solid

Lab Sample ID: 890-4484-1

Client: Ensolum Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: SS14

Date Collected: 04/07/23 12:15 Date Received: 04/07/23 13:47

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/11/23 10:01	04/14/23 02:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/11/23 10:01	04/14/23 02:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/11/23 10:01	04/14/23 02:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/11/23 10:01	04/14/23 02:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/11/23 10:01	04/14/23 02:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/11/23 10:01	04/14/23 02:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			04/11/23 10:01	04/14/23 02:35	1
1,4-Difluorobenzene (Surr)	105		70 - 130			04/11/23 10:01	04/14/23 02:35	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/14/23 10:17	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/12/23 09:01	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/11/23 11:07	04/12/23 00:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/11/23 11:07	04/12/23 00:06	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/11/23 11:07	04/12/23 00:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130			04/11/23 11:07	04/12/23 00:06	1
o-Terphenyl	66	S1-	70 - 130			04/11/23 11:07	04/12/23 00:06	1
Method: EPA 300.0 - Anions, Ion	• •	•	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	393		4.98	mg/Kg			04/13/23 12:20	1

Surrogate Summary

 Client: Ensolum
 Job ID: 890-4484-1

 Project/Site: Remuda 500
 SDG: 03C1558187

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-26842-A-1-G MS	Matrix Spike	64 S1-	68 S1-
880-26842-A-1-H MSD	Matrix Spike Duplicate	66 S1-	74
890-4484-1	SS14	102	105
LCS 880-50884/1-A	Lab Control Sample	103	111
LCSD 880-50884/2-A	Lab Control Sample Dup	101	109
MB 880-50884/5-A	Method Blank	91	97
MB 880-50904/5-A	Method Blank	94	99

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

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-26982-A-1-D MS	Matrix Spike	74	67 S1-	
880-26982-A-1-E MSD	Matrix Spike Duplicate	76	69 S1-	
890-4484-1	SS14	64 S1-	66 S1-	
LCS 880-50902/2-A	Lab Control Sample	9 S1-	7 S1-	
LCSD 880-50902/3-A	Lab Control Sample Dup	9 S1-	7 S1-	
MB 880-50902/1-A	Method Blank	83	92	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4484-1 SDG: 03C1558187 Project/Site: Remuda 500

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50884/5-A

Matrix: Solid Analysis Batch: 51006 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50884

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/11/23 10:01	04/14/23 00:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/11/23 10:01	04/14/23 00:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/11/23 10:01	04/14/23 00:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/11/23 10:01	04/14/23 00:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/11/23 10:01	04/14/23 00:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/11/23 10:01	04/14/23 00:03	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	04/11/23 10:01	04/14/23 00:03	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/11/23 10:01	04/14/23 00:03	1

Lab Sample ID: LCS 880-50884/1-A

Matrix: Solid

Analysis Batch: 51006

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50884

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1075		mg/Kg		107	70 - 130	
Toluene	0.100	0.1033		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.09454		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1871		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09528		mg/Kg		95	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	111	70 - 130

Lab Sample ID: LCSD 880-50884/2-A

Matrix: Solid

Analysis Batch: 51006

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50884

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1132		mg/Kg		113	70 - 130	5	35	
Toluene	0.100	0.1110		mg/Kg		111	70 - 130	7	35	
Ethylbenzene	0.100	0.09905		mg/Kg		99	70 - 130	5	35	
m-Xylene & p-Xylene	0.200	0.1953		mg/Kg		98	70 - 130	4	35	
o-Xylene	0.100	0.1006		mg/Kg		101	70 - 130	5	35	

LCSD LCSD

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: 880-26842-A-1-G MS

Matrix: Solid

Analysis Batch: 51006

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

Prep Batch: 50884

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.193	F1	0.101	0.2291	F1	mg/Kg	_	36	70 - 130	
Ethylbenzene	0.237	F1	0.101	0.2480	F1	mg/Kg		10	70 - 130	

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Page 8 of 20

Client: Ensolum Project/Site: Remuda 500

Job ID: 890-4484-1 SDG: 03C1558187

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

Lab Sample ID: 880-26842-A-1-G MS

Lab Sample ID: 880-26842-A-1-H MSD

Matrix: Solid

Analysis Batch: 51006

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50884

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
m-Xylene & p-Xylene	0.575	F1	0.201	0.5756	F1	mg/Kg		0.3	70 - 130	
o-Xylene	0.217	F1	0.101	0.2325	F1	mg/Kg		15	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50884

Matrix: Solid Analysis Batch: 51006

Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene 0.193	F1	0.0990	0.2126	F1	mg/Kg		20	70 - 130	7	35
Ethylbenzene 0.237	F1	0.0990	0.2397	F1	mg/Kg		2	70 - 130	3	35
m-Xylene & p-Xylene 0.575	F1	0.198	0.5704	F1	mg/Kg		-2	70 - 130	1	35
o-Xylene 0.217	F1	0.0990	0.2298	F1	mg/Kg		13	70 - 130	1	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 50904

Matrix: Solid

Lab Sample ID: MB 880-50904/5-A

Analysis Batch: 51006

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/11/23 11:19	04/13/23 12:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/11/23 11:19	04/13/23 12:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/11/23 11:19	04/13/23 12:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/11/23 11:19	04/13/23 12:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/11/23 11:19	04/13/23 12:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/11/23 11:19	04/13/23 12:26	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	04/11/23 11:19	04/13/23 12:26	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/11/23 11:19	04/13/23 12:26	1

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

Lab Sample ID: MB 880-50902/1-A

Matrix: Solid

Analysis Batch: 50866

Client Sample ID: Method Blank
Prep Type: Total/NA
Pron Batch: 50902

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/11/23 11:07	04/11/23 21:06	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/11/23 11:07	04/11/23 21:06	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/11/23 11:07	04/11/23 21:06	1

Project/Site: Remuda 500

C10-C28)

Client: Ensolum

Job ID: 890-4484-1

SDG: 03C1558187

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

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83	70 - 130	04/11/23 11:07	04/11/23 21:06	1
o-Terphenyl	92	70 - 130	04/11/23 11:07	04/11/23 21:06	1

Lab Sample ID: LCS 880-50902/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 50866 Prep Batch: 50902

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1136 114 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 967.0 mg/Kg 97 70 - 130 C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 9
 S1 70 - 130

 o-Terphenyl
 7
 S1 70 - 130

Lab Sample ID: LCSD 880-50902/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 50866 Prep Batch: 50902

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Gasoline Range Organics 1000 1102 mg/Kg 110 70 - 1303 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 946.9 mg/Kg 95 70 - 1302 20

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 9
 S1 70 - 130

 o-Terphenyl
 7
 S1 70 - 130

Lab Sample ID: 880-26982-A-1-D MS

Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 50866 Prep Batch: 50902

Sample Sample Spike MS MS Analyte Result Qualifier hahhA Result Qualifier Unit %Rec Limits D Gasoline Range Organics <50.0 U 996 1099 mg/Kg 108 70 - 130 (GRO)-C6-C10

Diesel Range Organics (Over <50.0 U 996 1051 mg/Kg C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 74
 70 - 130

 o-Terphenyl
 67
 \$1 70 - 130

Lab Sample ID: 880-26982-A-1-E MSD

Matrix: Solid

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 50866 Prep Batch: 50902 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD

AnalyteResult
Gasoline Range OrganicsQualifierQualifierQualifierUnitD
mg/KgRec
110LimitsRPD
70 - 130Limit(GRO)-C6-C10

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103

70 - 130

Client: Ensolum Job ID: 890-4484-1 Project/Site: Remuda 500

SDG: 03C1558187

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

Lab Sample ID: 880-26982-A-1			Client Sample ID: Matrix Spike Dupli								
Matrix: Solid						Prep 1	ype: To	tal/NA			
Analysis Batch: 50866									Prep	Batch:	50902
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics (Over	<50.0	U	998	1072		mg/Kg		105	70 - 130	2	20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	69	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50787/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 51052

	IVID	IAID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/13/23 10:24	1

Lab Sample ID: LCS 880-50787/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble Analysis Batch: 51052**

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	232.1		mg/Kg	_	93	90 - 110	

Lab Sample ID: LCSD 880-50787/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 51052

	Spike	LOOD	LOGD				/01 \C C		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	234.3		mg/Kg		94	90 - 110	1	20	

Lab Sample ID: 890-4480-A-6-F MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 51052

_	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	101		249	328.0		ma/Ka	_	91	90 - 110		

Lab Sample ID: 890-4480-A-6-G MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 51052											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	101		249	329.2		mg/Kg		92	90 - 110	0	20

QC Association Summary

 Client: Ensolum
 Job ID: 890-4484-1

 Project/Site: Remuda 500
 SDG: 03C1558187

GC VOA

Prep Batch: 50884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4484-1	SS14	Total/NA	Solid	5035	
MB 880-50884/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50884/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50884/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26842-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
880-26842-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 50904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-50904/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 51006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4484-1	SS14	Total/NA	Solid	8021B	50884
MB 880-50884/5-A	Method Blank	Total/NA	Solid	8021B	50884
MB 880-50904/5-A	Method Blank	Total/NA	Solid	8021B	50904
LCS 880-50884/1-A	Lab Control Sample	Total/NA	Solid	8021B	50884
LCSD 880-50884/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50884
880-26842-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	50884
880-26842-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50884

Analysis Batch: 51161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4484-1	SS14	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 50866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4484-1	SS14	Total/NA	Solid	8015B NM	50902
MB 880-50902/1-A	Method Blank	Total/NA	Solid	8015B NM	50902
LCS 880-50902/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50902
LCSD 880-50902/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50902
880-26982-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	50902
880-26982-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50902

Prep Batch: 50902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4484-1	SS14	Total/NA	Solid	8015NM Prep	
MB 880-50902/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50902/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50902/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26982-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26982-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4484-1	SS14	Total/NA	Solid	8015 NM	

QC Association Summary

 Client: Ensolum
 Job ID: 890-4484-1

 Project/Site: Remuda 500
 SDG: 03C1558187

HPLC/IC

Leach Batch: 50787

Lab Sample ID 890-4484-1	Client Sample ID SS14	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-50787/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50787/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50787/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4480-A-6-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4480-A-6-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 51052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4484-1	SS14	Soluble	Solid	300.0	50787
MB 880-50787/1-A	Method Blank	Soluble	Solid	300.0	50787
LCS 880-50787/2-A	Lab Control Sample	Soluble	Solid	300.0	50787
LCSD 880-50787/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50787
890-4480-A-6-F MS	Matrix Spike	Soluble	Solid	300.0	50787
890-4480-A-6-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	50787

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Lab Chronicle

Client: Ensolum Job ID: 890-4484-1 Project/Site: Remuda 500 SDG: 03C1558187

Client Sample ID: SS14 Lab Sample ID: 890-4484-1 Date Collected: 04/07/23 12:15

Matrix: Solid

Date Received: 04/07/23 13:47

	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	50884	04/11/23 10:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51006	04/14/23 02:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51161	04/14/23 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			50952	04/12/23 09:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50902	04/11/23 11:07	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50866	04/12/23 00:06	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50787	04/10/23 09:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51052	04/13/23 12:20	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-4484-1

 Project/Site: Remuda 500
 SDG: 03C1558187

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av 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	

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EET MID

EET MID

SW846

ASTM

Method Summary

 Client: Ensolum
 Job ID: 890-4484-1

 Project/Site: Remuda 500
 SDG: 03C1558187

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID Total BTEX Calculation TAL SOP Total BTEX 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 **EET MID** Closed System Purge and Trap SW846

Protocol References:

8015NM Prep

DI Leach

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: Remuda 500

Job ID: 890-4484-1 SDG: 03C1558187

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4484-1	SS14	Solid	04/07/23 12:15	04/07/23 13:47	0.5

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Chain of Custody

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		7	H-1-23 1347	÷	Class	30	DR	MUM
Received by: (Signature) Date/Time	ure) Received	Relinquished by: (Signature)	Date/Time		Received by: (Signature)	A Receiv	by: (Signature)	/Bellinguished, by
	ms and conditions syond the control ss 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 items 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.	fins Xenco, its affiliates and sut ses incurred by the client if suc urofins Xenco, but not analyze	from client company to Euro bility for any losses or exper each sample submitted to E	es a valid purchase order Il not assume any respons ect and a charge of \$5 fo	nt of samples constitu ost of samples and sha oe applied to each pro	ument and relinquishme vill be liable only for the c um charge of \$85.00 will i	Notice: Signature of this do of service. Eurofins Xenco v of Eurofins Xenco. A minim
Ag SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471	li K Se	A 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg ITCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se	Al Sb As Ba Be B Cd C CRA Sb As Ba Be Cd Cr	Texas 11 Al Sb .P 6010 : 8RCRA S	8RCRA 13PPM TCLP/SPLP	020: be analyzed	10 200.8 / 6020: and Metal(s) to be a	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
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Sample Comments			B	Depth Grab/ # of Comp Cont	Time Sampled	Matrix Sampled	ification	Sample Identification
NaOH+Ascorbic Acid: SAPC	_		TE	3.60	Corrected Temperature:	Correct		Total Containers:
Zn Acetate+NaOH: Zn	Chain of Custody	890-4484 Cn	or	in on	Temperature Reading:	N/A Temper	yes No	Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃			nd		Correction Factor:	Correcti	Yes No.	Cooler Custody Seals:
NaHSO 4: NABIS			es	AWO T			7	Samples Received Intact:
H ₃ PO ₄ : HP				No No neter	o Wet Ice:	ank: Yes No	Temp Blank:	SAMPLE RECEIPT
H ₂ SO ₄ : H ₂ NaOH: Na					the lab, if received by 4:30pm			PO #:
		_	-	y received by	TAT starts the day received by	Roberts	Meredith	Sampler's Name:
Cool: Cool MeOH: Me		-b-art-y-			24 Due Date:	-103.93624	32.26994	Project Location:
None: NO DI Water: H ₂ O				Rush Code	Routine	187	034558187	Project Number:
Preservative Codes	JEST	ANALYSIS REQUEST			Turn Around	2 500	Remuda 500	Project Name:
ADaPT Other:	Deliverables: EDD	DM	obelillensolum.com	bbedill(Email:	989-834-0852	989.82	Phone:
PST/UST	Reporting: Level II Level III	02288 WN	Carlsbad,	City, State ZIP:	0_	7	Carlshad,	City, State ZIP:
)	State of Project:	Greene St	3104 E G	Address:	Howy	+1 Parks	3122 NA+1	Address:
UST/PST PRP Brownfields RRC Superfund	Program: UST/PST[Energy, Inc	YTD E	Company Name:	0	MILLC	En soilum, ILL	Company Name:
Work Order Comments		t Green	GarrettGreen	Bill to: (if different)		111	Ben Bail	Project Manager:
www.xenco.com Page of	W			100000				
_		(806) 794-1296 A (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550. Carlsbad, NM (575) 988-3199	EL Paso, TX (9		Xenco	>0	
Work Order No:	Worl	TX (210) 509-3334	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Midland, TX (43	Testing	Environment Testing		
		(214) 902-0300	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	Houston, TX			_	eurotins
		(20)	1011 01 2001	(• •

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4484-1 SDG Number: 03C1558187

Login Number: 4484 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4484-1 SDG Number: 03C1558187

List Source: Eurofins Midland

Login Number: 4484 List Number: 2

List Creation: 04/11/23 10:22 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").



APPENDIX E

NMOCD Notifications

From: <u>Green, Garrett J</u>

To: <u>Tacoma Morrissey</u>; <u>Ben Belill</u>

Subject: FW: [EXTERNAL] XTO - Sampling Notification (Week of 3/20/23 - 3/24/23)

Date: Friday, March 17, 2023 1:38:12 PM

[**EXTERNAL EMAIL**]

From: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Sent: Thursday, March 16, 2023 4:33 PM

To: Green, Garrett J <garrett.green@exxonmobil.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Subject: RE: [EXTERNAL] XTO - Sampling Notification (Week of 3/20/23 - 3/24/23)

External Email - Think Before You Click

Garrett,

Please be aware that notification requirements are **two business days**, per rule. Please include specific days and times you will be sampling each site. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov



From: Green, Garrett J <<u>garrett.green@exxonmobil.com</u>>

Sent: Thursday, March 16, 2023 9:52 AM

To: Enviro, OCD, EMNRD < CCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>>;

Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Subject: [EXTERNAL] XTO - Sampling Notification (Week of 3/20/23 - 3/24/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on

links or opening attachments.

All,

XTO plans to complete final sampling activities at the additional site the week of Mar 20, 2023.

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- PLU 27 BD 163 / nAPP2226337852
- PLU CVX JV BS 008H / NAB1602154960
- PLU 420H / nAB1834656162
- Perla Verde 31 State battery/ nAPP2303444414
- BEU Hackberry / nAB1726335399
- Remuda 500 CTB / nAPP2303854000 & nAPP2306544797
- Indian Deep Com 7/ NAPP2301152626
- Nash Unit 36 / nAPP2224236187

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

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 211021

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	211021
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	8/28/2023