Received by OCD: 12/14/2022 8:57:08 AM Form C-141 State of New Mexico

Oil Conservation Division

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Remediation Plan

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan. Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: ____ Garrett Green______ Title: _SSHE Coordinator Ant Sun Date: 12/13/2022 Signature: Telephone: 575-200-0729 email: garrett.green@exxonmobil.com **OCD Only** Received by: Jocelyn Harimon Date: 12/14/2022 Approved Approved with Attached Conditions of Approval Denied X Deferral Approved Robert Hamlet _____ 4/26/2023 Date: Signature:

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

)

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Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380	
Contact Name Garrett Green	Contact Telephone 575-200-0729	
Contact email garrett.green@exxonmobil.com Incident # (assigned by OCD)		
Contact mailing address 3104 E. Greene Street, Carlsbad, New Mexico, 88220		

Location of Release Source

Latitude 32.27708

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Remuda 100 CTB	Site Type Central Tank Battery
Date Release Discovered 09/14/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
Е	25	238	29E	Eddy

Surface Owner: 🗷 State 🗌 Federal 🗌 Tribal 🗌 Private (Name: _

Nature and Volume of Release

Materia	l(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
► Produced Water	Volume Released (bbls) 5.07	Volume Recovered (bbls) 4.00
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Corrosi fluids.	on on a 6" T caused fluids to release from the main disonant of the trained for remedati A third-party contractor has been retained for remedati	charge water line. A vacuum truck recovered all free on purposes.

Sint C-1-1 State of New Mexico

NA

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Oil	Conserva	ation	Dix	vision
on	Conserve	tu on		101011

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? N/A
🗌 Yes 🗶 No	
LEVES may immediate a	ation given to the OCD2 Devenham? To whom? When and he what magins (whom a mail, ata)?
N/A	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \checkmark The source of the release has been stopped.

★ The impacted area has been secured to protect human health and the environment.

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

▲ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have <u>not</u> been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name:	Title:
Signature:	Date: Telephone:
OCD Only Received by: Jocelyn Harimon	Date:09/20/2022

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- \boxtimes 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.

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			Application ID	
regulations all operators are required public health or the environment. T failed to adequately investigate and	given above is true and complete to the d to report and/or file certain release no 'he acceptance of a C-141 report by the remediate contamination that pose a the 1 report does not relieve the operator o	outifications and perform co OCD does not relieve the reat to groundwater, surface	rrective actions for rele operator of liability sh ce water, human health	eases which may endanger ould their operations have or the environment. In
Printed Name: _ Garrett Green_	······	Title: _SSHE Coordinat	or	
Signature: email:garrett.green@exxonm		Date:12/13/2022 Telephone:575-20		
OCD Only Received by: Jocelyn H	arimon	Date: <u>12/1</u>	4/2022	

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Remediation Plan

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan. Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: ____ Garrett Green ______ Title: _SSHE Coordinator Natt Sun Date: 12/13/2022 Signature: Telephone: 575-200-0729 email: garrett.green@exxonmobil.com **OCD Only** Received by: Jocelyn Harimon Date: 12/14/2022 Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

E N S O L U M

December 13, 2022

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

Re: Deferral Request Remuda 100 CTB Incident Number NAPP2226346738 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document site assessment, delineation, and soil sampling activities at the Remuda 100 Central Tank Battery (CTB; Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following release of produced water. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2226346738 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit E, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.27708°N, 103.94295°W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On September 14, 2022, corrosion along the main discharge produced water pipeline resulted in the release of approximately 5.07 barrels (bbls) of produced water onto the surface of the well pad, around active surface pipelines and production equipment. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; 4.0 bbls of produced water were recovered. XTO submitted a Release Notification Form C-141 (Form C-141) on September 20, 2022. The release was assigned Incident Number NAPP2226346738.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. 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 recent soil boring drilled for determination of regional groundwater depth. Between November 18, 2020, and Janruary 5, 2021, a soil boring (C-04494) was drilled a ½-mile to the southeast

of the Site to a depth of 105 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activites. 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 Record and Log is included in Appendix A.

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 surface water or significant watercourse to the Site is a seasonal dry wash, located approximately 197 feet north of the Site. Because the significant watercourse appeared in online

databases to flow through the well pad and adjacent well pad (Figure 2), Ensolum personnel conducted a field investigation to confirm the presence or absence of a potential 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) 7.5minute 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 aerial properties of a next lower tributary that would connect to a significant watercourse, instead, connecting with another feature and apparently ending.

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 north (Survey Photo 3, facing northwest) and east of the Site (Survey Photo 5, facing west). Only faint erosional paths without defined banks aligned with the topographic gradient were visible.



Survey Photo 5



Ensolum was able to identify a seasonal dry wash with a bed and bank located 375 feet north of the Site. Five photos (Photo 1 and Photo 6 through Photo 9) indicate a seasonal dry wash with evidence of fluvial deposition within the erosional feature. This feature is intersected by an access road and a pipeline ROW further to the north. More detailed results and photographic evidence are provided 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 faint erosional channels formed by drainage of water during storm events. The faint conduits are intercepted by well pads. A potential significant watercourse was identified approximately 375 feet north of the site; however, this feature is also intersected by infrastructure that would affect water flow (an access road and a pipeline ROW) and does not connect to a larger watercourse.

Based on the results of the Site Characterization, absence of a significant watercourse on the pad, and confirmation of a significant watercourse greater than 300 feet away from the release, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

SITE ASSESSMENT ACTIVITIES

On November 15, 2022, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Two delineation soil samples (SS01 and SS02) were collected within the release extent from a depth of approximately 0.5 feet bgs. The delineation soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 3. Photographic documentation 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 at or below 4 degrees Celsius (°C) 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.

Ensolum returned to the Site following utility locate clearance to advance two boreholes (BH01 and BH02) in the vicinity of delineation soil samples SS01 and SS02 by use of hand auger to assess the vertical extent of the release. Two discrete delineation soil samples were collected from each borehole at depths of 1-foot bgs and 2 feet bgs. Additionaly, Ensolum personnel collected four delineation soil samples (SS03 through SS06) at a depth of 0.5 feet bgs to assess the lateral extent of the release. The



delineation soil samples were field screened, handled, and submitted for analysis for the same COCs as described above. Field screening results and observations for the delineation soil samples were logged on lithologic soil sampling logs, which are included in Appendix C.

Laboratory analytical results for delineation soil samples BH01/BH01A, BH02//BH02A, and SS03 through SS06 indicated COC concentrations were in compliance with the Site Closure Criteria. Delineation soil samples SS01 and SS02 contained TPH-GRO/TPH-DRO, and TPH concentrations exceeding the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix D.

MICRO-BLAZE APPLICATION ACTIVITIES

XTO safety policy includes a restriction of soil disturbing activities within a 2-foot radius of any active pipelines or production equipment. Because the soil could not be safely accessed for removal, 200 gallons of a 3 percent (%) solution of freshwater and Micro-Blaze[®], which contains a combination of wetting agents, nutrients, and microbes, was applied to the impacted soil to address elevated TPH concentrations. A safety data sheet is included in Appendix F. The solution was applied over the entire release extent to oversaturate soil and promote infiltration into the subsurface.

DEFFERAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active pipelines above the entire release extent. Excavation of the soil would require a major facility deconstruction. The impacted soil remaining in place is delineated vertically to 1-foot bgs by delineation soil samples BH01 and BH02 and delineated laterally by delineation soil samples SS03 through SS06. Assuming a 1-foot depth based on the delineation soil sample results listed above and a 1,200-square foot area of the release extent, a total of approximately 45 cubic yards of TPH-impacted soil remains in place

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet bgs, and the impacted soil remaining in place is limited in areal and vertical extent. The surface of the release area was treated with Micro-Blaze[®] to reduce the observed TPH concentrations and potentially limit any additional migration.

Based on the presence of active pipelines within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number NAPP2226346738 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely, Ensolum, LLC

Anita Thapalia, Ph.D., P.G. Project Geologist



Ashley L. ager

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

cc: Garrett Green, XTO Shelby Pennington, XTO New Mexico State Land Office

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 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 Lithologic / Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Sample Notification
- Appendix F Micro-Blaze Safety Data Sheet





FIGURES



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Released to Imaging: 4/26/2023 10:00:33 AM



Released to Imaging: 4/26/2023 10:00:33 AM



TABLES

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Remuda 100 CTB XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delir	neation Soil Sa	mples	1			
SS01	11/15/2022	0.5	<0.00198	<0.00396	<49.8	2,350	390	2,350	2,740	5,600
BH01	11/22/2022	1	<0.00199	<0.00398	<50.0	60.0	<50.0	60.0	60.0	2,420
BH01A	11/22/2022	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,980
SS02	11/15/2022	0.5	<0.00199	<0.00398	<50.0	2,400	418	2,400	2,820	13,000
BH02	11/22/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	6,150
BH02A	11/22/2022	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,570
SS03	12/02/2022	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	11.5
SS04	11/22/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	23.7
SS05	12/02/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	21.6
SS06	12/02/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	22.0

GRO: Gasoline Range Organics

TPH: Total Petroleum Hydrocarbon

DRO: Diesel Range Organics

ORO: Oil Range Organics

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation NMAC: New Mexico Administrative Code requirement where applicable.

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APPENDIX A

Referenced Well Records

									BH or PH Name:	Date:		
	119				WS	P USA					00/00 04/05/0004	
							troot		BH01 (C-04494)		02/20, 01/05/2021	
					08 West S Isbad, Ne				Site Name: RP or Incident Numbe	Remuda North 25 (Uservation Well	
									LTE Job Number: TE012919039			
		LITH		IC / SOIL	SAMPI	INGLO	G		Logged By BB, LAD, FS		Stem Auger, sonic	
Lat/Lo	ng:	E			Field Scre		0		Hole Diameter:	Total Depth:	etem rager, come	
	-					0			6.25", 4.25"	105'		
Comm Litholo		sonly No	field so	creenings: D	v hole							
		-					ock					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithc	logy/Remarks		
D			Ν		1	1	SP-SC					
					-	2		0 1' . 54	ND, dry, brown, poor	ly graded fine grain	(10% clay)	
					-	_ ~			ots, no stain, no odor		i, Clay (1076 clay),	
					-	3			, ,			
					-	4			ND, dry, reddish-ligh			
D			Ν		-	5	CCHE	grain, so	me rounded caliche	bebbles, no stain, n	o odor	
						6		4-9' : CA	LICHE, dry, light brov	wn-tan, poorly cons	olidated, sub-	
					-	7			caliche pebbles and			
					-	_ ′		0 1 1 . 1	aundant cub round a	aliaha graval		
					_	8			oundent sub-round c	-		
					-	9			Some sub-angular caliche gravel and pebbles			
									Abundant sub-angula	r caliche gravel and	l pebbles,	
					-	10		moderate	ely consolidated			
					-	11						
					-	12						
					-	13						
					-							
						14						
					-	15						
					-	16						
					-	17						
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					-	19						
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					-	22						
					-	23						
D			N		_	24	CL	-				
					-	25	5					

										Doto	
					WS	P USA			BH or PH Name:		
							Anna I	-	BH01 (C-04494)	11/18/2020, 12/02/20, 01/05/2021	
				5 Car	08 West S Isbad, Ne	stevens S w Mexico	88220	-	Site Name: Re RP or Incident Numbe	muda North 25 Observation Well	
				U				-	LTE Job Number:	TE012919039	
		LITHO	DLOG	IC / SOIL	SAMPI	INGLO	G		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic	
Lat/Lo	ng:				Field Scre				Hole Diameter:	Total Depth:	
0									6.25", 4.25"	105'	
Comm Litholo		s only. No	field so	reenings: D	y hole						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litholog	y/Remarks	
D			Ν			26	CL				
					-	27		consolida		sh-brown, low plasticity, well liche sub-angular pebbles, no tain,	
					-	28 29		34-39' : S	Sub-angular calcium car	bonate gravel with dissolution	
					-	30			(1-3mm), tan-light brown egin air rotory (4.25")	n	
						31		39-42' : D	DOLOMETIC LIMESTON	NE, tan-light brown, dry, well atures (1-3mm), sharp, no stain, no	
					-	32		odor, ligh	with HCI		
					-	33		(>1mm)	e with trace dissolution features usal (11/18/20)		
					-	34			Advance borehole with new air rotary bit (12/02/20),		
					-	35		DOLOMI stain , no		ated, dark gray-black banding, no	
					-	36					
					-	37 					
					-	39					
D			Ν		-	40	DOL				
					-	41					
					-	42					
					-	43					
					-	44 45					
					-	45 46					
					-	47					
					-	48				Refusal on 11/18/20	
					-	49				Restart borehole on 12/02/20	
1					-	50					

									BH or PH Name:	Date:	
					WS	P USA			BH01 (C-04494)	11/18/2020. 12/02/2020, 1/5/2021	
						Stovene	Stroot		. ,	uda North 25 Observation Well	
				Car	08 West S Isbad, Ne	w Mexico	88220		RP or Incident Number:		
									LTE Job Number: TE012919039		
		LITHO		IC / SOIL	SAMPI	INGLO	G		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic	
Lat/Lo	ng:				Field Scre			Hole Diameter:	Total Depth:		
	5					0			6.25", 4.25"	105'	
Comm Litholo	nents: ogic log on	ly, no field	l screer	nings							
				#			쏭				
Moisture Content	Chloride (ppm)	n) D	Staining	Sample #	Sample	Depth	bol				
ois	hlo (pp	Vapor (ppm)	tair	dmg	Depth (ft bgo)	(ft bgs)	SCS/		Litholo	gy/Remarks	
≥o	0 0		S	S	(ft bgs)		USCS/Rock Symbol				
						51	DOL	10 56' .	Advanced barabala wit	th now air rotary bit $(12/02/20)$	
					-	52				h new air rotary bit (12/02/20), idated, dark gray- banding, no sta	
					-	53		10 0001			
					-	54					
					-	55					
						56		At 56' : F	Restarted borehole on	1/5/2021 with sonic rig	
					-	57			DOLOMITE, dry, light gray-gray, well consolidated, some		
					-	58		(2mm) v	vith fine calcite crystalli	n), some dissolution features ne, trace orange oxidation staining	
					-	59			ssolution features, no s		
					-	60		stringer	(2cm)	crystalline dolomitic limestone	
					-	61			Abundant calcite crysta orly consolidated	alline veins (<1mm), pale green-	
					-	62				ddish brown, poorly consolidated,	
					-	63			sticity, cohesive, abund en-gray mottling, no st	lant coarse crystalline gypsum, fe ain, no odor	
					-	64		69-81' :	GYPSUM with Anhydri	te, dry, greenish gray, some pale rystalline, 20% anhydrite, no stain	
					-	65		no odor			
D			Ν		-	66	CH-S				
					· -	67					
					-	68					
					-	69	017				
D			Ν		-	70	GYP				
					-	71					
					-	72					
					-	73					
					-	74					
					-	75					

WSP USA BH01 (C-04494) 11/18/2020. 12/02/2020, 1 508 West Stevens Street Site Name: Remuda North 25 Observation Well RP or Incident Number: ITTE Job Number: TE012919039 LITHOLOGIC / SOIL SAMPLING LOG Logged By BB, LAD, FS Method: Hollow Stem Aug Lat/Long: Field Screening: Hole Diameter: Total Depth:	1/5/2021		
508 West Stevens Street Carlsbad, New Mexico 88220 Site Name: Remuda North 25 Observation Well RP or Incident Number: LTE Job Number: TE012919039 LITHOLOGIC / SOIL SAMPLING LOG Logged By BB, LAD, FS Method: Hollow Stem Aug			
Carlsbad, New Mexico 88220 RP or Incident Number: LTE Job Number: TE012919039 LITHOLOGIC / SOIL SAMPLING LOG Logged By BB, LAD, FS Method: Hollow Stem Aug	Site Name: Remuda North 25 Observation Well		
LTE Job Number: TE012919039 LITHOLOGIC / SOIL SAMPLING LOG Logged By BB, LAD, FS Method: Hollow Stem Aug			
	jer, sonic		
Lavison rield Screening. Hole Diameter: I total Depth:			
6.25", 4.25" 105'			
Lithologic log only, no field screenings			
Moisture Chloride (ppm) Vapor Vapor Vapor Vapor FitholoXike Kaining Vapor FitholoXike Kaining Vapor Vapor FitholoXike Vapor FitholoXike Vapor Vapor FitholoXike Vapor Vapor Vapor Vapor Vapor Vapor Vation Vapor Va Vapor Vapor Va Va Va Va Va Va Va Va Va Va Va Va Va			
2 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td>no stain, ately talline lline rell y-dark</td>	no stain, ately talline lline rell y-dark		

									BH or PH Name:	D	ate:	_1 "8
					WS	SP USA			BH01 (C-04494)		1/18/2020. 12/02/2020, 1/5/2	2021
				F	i08 West	Stevens S	Street				th 25 Observation Well	
				Car	08 West S Isbad, Ne	w Mexico	88220		RP or Incident Number: LTE Job Number: TE012919039			
		LITH	OLOG	IC / SOII	SAMPL	ING LO	G		Logged By BB, LAD, FS	M	lethod: Hollow Stem Auger,	sonic
_at/Lo	ng:				Field Scre	ening:		Hole Diameter:		otal Depth:		
Comm									6.25", 4.25"		105'	
Litholc	gic log on	ly, no field	d screei	nings	1			1				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithol	logy/Re	marks	
						101	ML-S				t, brown, some gray-da	
						102		gray, po odor	orly consolidated, 209	% very f	ine grain sand, no stai	n, no
	103 At 102							At 102' :	Thin (<1mm) laminat	ted blac	k/gray well consolidate	ed
	104								inger (4cm thick)			
					-	Ī						
D			Ν		-	105		TD @ 10	05' bgs (1/5/2021)			
					-	106						
					-	107						
					-	108						
					-	109						
					-	110						
						111						
					-	Ī						
					-	112						
					-	113						
					-	114						
					-	115						
					-	116						
					-	117						
					-	118						
					-	119						
					-	Ī						
					-	120						
					-	121						
					-	122						
					-	123						
					-	124						
					-	Ē						
						125						



APPENDIX B

Photographic Log







APPENDIX C

Lithologic Soil Sampling Logs

•

						U	M	Sample Name:BH01 Site Name: Remuda 100 CTB	Date: 11/22/2022		
					ngineerir			Incident Number: nAPP2226346	738		
					nsultant			Job Number:03E1558138	/30		
		· ·	-	0	AMPLING						
Coordi	inates: 32.					Logged By: Meredith Roberts Hole Diameter: 3.5"	Total Depth: 2'				
					th HACH Chl	PID for chloride and vapor, respec					
			-					on factor is included for chloride s			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De			
Μ							(fill)	0-1, CALICHE, moist, light k consolidated, no odor, l staining, fill. 0.25-1', no stain.	ight brown surface		
Μ	12,006	0.2	Ν	BH01	1 _	_ 1	SP	SAND with caliche gravel, r graded, fine-very fine gr	reddish-brown, poorly rain, no stain, no odor.		
М	1,388	0.1	Ν	BH01A	2 -	2					
								Total depth 2 feet bgs, aug	ger refusal.		

•

		_	_					Sample Name:BH02	Date: 11/22/2022	
		ΕI	N	S	OL	U	M	Site Name: Remuda 100 CTB	Date. 11/22/2022	
					ngineerir			Incident Number: nAPP22263467	72.9	
					ngineerir Insultant			Job Number: 03E1558138	750	
			-	-	AMPLING			Logged By: Meredith Roberts Method: Hand Auger		
Coordi	nates: 32.			-	AIVIPLING	Hole Diameter: 3.5"	Total Depth: 2'			
					th HACH Chl	PID for chloride and vapor, respect				
			-				•	on factor is included for chloride so	•	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs) 0	C USCS/Rock	Lithologic De		
m	12,006	0.0	N	SS02	0.5	- - -	(fill)	0-1, CALICHE, moist, light k consolidated, no odor, l staining, fill. 0.25-1', no stain.	ight brown surface	
m	8,164	0.6	Ν	BH02	1 _	_ 1	SP	SAND with caliche gravel, r graded, fine-very fine gr	eddish-brown, poorly rain, no stain, no odor.	
m	1,613	0.0	N	BH02A	2	2				
								Total depth 2 feet bgs, aug	er refusal.	



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701 Generated 11/28/2022 4:19:38 PM

JOB DESCRIPTION

Remuda 100 CTB SDG NUMBER 03E1558138

JOB NUMBER

890-3484-1

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

RAMER

Generated 11/28/2022 4:19:38 PM

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

1

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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Method Summary	17
Sample Summary	18
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-	

Definitions/Glossary

Client: Ensolum					
Project/Site: Remuda 100 CTB					

Job ID: 890-3484-1

Project/Site: R	emuda 100 CTB	SDG: 03E1558138	
Qualifiers			3
GC VOA Qualifier	Qualifier Description		Δ
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA			5
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		8
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		9
	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)		13
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)
- Toxicity Equivalent Quotient (Dioxin) TEQ
- TNTC Too Numerous To Count

4

Job ID: 890-3484-1 SDG: 03E1558138

Job ID: 890-3484-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: Remuda 100 CTB

Narrative

Job Narrative 890-3484-1

Receipt

The samples were received on 11/15/2022 1:31 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 5.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3484-1) and SS02 (890-3484-2).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40185/2-A) and (LCSD 880-40185/3-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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

Result Qualifier

Qualifier

<0.00198 U

<0.00198 U

<0.00198 U

<0.00396 U

<0.00198 U

<0.00396 U

99

108

<0.00396

2740

Result Qualifier

U

Result Qualifier

%Recovery

RL

0.00198

0.00198

0.00198

0.00396

0.00198

0.00396

Limits

70 - 130

70 - 130

RL

RL

49.8

0.00396

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

Unit

mg/Kg

mg/Kg

D

D

D

Prepared

11/23/22 10:46

11/23/22 10:46

11/23/22 10:46

11/23/22 10:46

11/23/22 10:46

11/23/22 10:46

Prepared

11/23/22 10:46

11/23/22 10:46

Prepared

Prepared

Dil Fac

1

1

1

1

Dil Fac

Job ID: 890-3484-1 SDG: 03E1558138

Client Sample ID: SS01

Project/Site: Remuda 100 CTB

Date Collected: 11/15/22 10:30 Date Received: 11/15/22 13:31

Sample Depth: 0.5'

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-3484-1 Matrix: Solid

Analyzed

11/23/22 20:58

11/23/22 20:58

11/23/22 20:58

11/23/22 20:58

11/23/22 20:58

11/23/22 20:58

Analyzed

5

11/23/22 20:58 11/23/22 20:58	1	
Analyzed	Dil Fac	
11/28/22 15:35	1	12
Analyzed	Dil Fac	13
11/23/22 12:17	1	11

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		11/22/22 09:47	11/22/22 18:43	1
(GRO)-C6-C10								
Diesel Range Organics (Over	2350		49.8	mg/Kg		11/22/22 09:47	11/22/22 18:43	1
C10-C28)								
Oll Range Organics (Over	390		49.8	mg/Kg		11/22/22 09:47	11/22/22 18:43	1
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			11/22/22 09:47	11/22/22 18:43	1
o-Terphenyl	96		70 - 130			11/22/22 09:47	11/22/22 18:43	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5600		49.7	mg/Kg			11/22/22 01:00	10
Client Sample ID: SS02						Lab Sar	nple ID: 890-	3484-2
Date Collected: 11/15/22 10:35							-	x: Solid

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	
Benzene	<0.00199	U	0.00199	mg/Kg		11/23/22 10:46	11/23/22 21:18	
Toluene	<0.00199	U	0.00199	mg/Kg		11/23/22 10:46	11/23/22 21:18	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/23/22 10:46	11/23/22 21:18	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/23/22 10:46	11/23/22 21:18	
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/23/22 10:46	11/23/22 21:18	
Xvlenes. Total	<0.00398	U	0.00398	ma/Ka		11/23/22 10:46	11/23/22 21:18	

Eurofins Carlsbad

Released to Imaging: 4/26/2023 10:00:33 AM

11/28/2022
Client Sample Results

Job ID: 890-3484-1 SDG: 03E1558138

Matrix: Solid

5

Lab Sample ID: 890-3484-2

Client Sample ID: SS02

Project/Site: Remuda 100 CTB

Date Collected: 11/15/22 10:35 Date Received: 11/15/22 13:31

Sample Depth: 0.5'

Client: Ensolum

						_		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			11/23/22 10:46	11/23/22 21:18	1
1,4-Difluorobenzene (Surr)	110		70 - 130			11/23/22 10:46	11/23/22 21:18	1
Method: TAL SOP Total BTEX -	Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/28/22 15:35	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2820		50.0	mg/Kg			11/23/22 12:17	1
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/22/22 09:47	11/22/22 19:04	1
Diesel Range Organics (Over C10-C28)	2400		50.0	mg/Kg		11/22/22 09:47	11/22/22 19:04	1
Oll Range Organics (Over C28-C36)	418		50.0	mg/Kg		11/22/22 09:47	11/22/22 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			11/22/22 09:47	11/22/22 19:04	1
o-Terphenyl	101		70 - 130			11/22/22 09:47	11/22/22 19:04	1
- Method: MCAWW 300.0 - Anion	s, Ion Chromato	ography - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13000		250	mg/Kg			11/22/22 01:05	50

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)		
880-21911-A-13-C MS	Matrix Spike	94	107		
880-21911-A-13-D MSD	Matrix Spike Duplicate	93	95		
890-3484-1	SS01	99	108		
890-3484-2	SS02	99	110		
LCS 880-40279/1-A	Lab Control Sample	86	112		
LCSD 880-40279/2-A	Lab Control Sample Dup	85	101		
MB 880-40279/5-A	Method Blank	77	102		
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
nple ID	Client Sample ID	(70-130)	(70-130)	
4-1	SS01	85	96	
4-2	SS02	85	101	
99-A-1-C MS	Matrix Spike	96	101	
-A-1-D MSD	Matrix Spike Duplicate	113	118	
40185/2-A	Lab Control Sample	163 S1+	190 S1+	
380-40185/3-A	Lab Control Sample Dup	157 S1+	180 S1+	
0-40185/1-A	Method Blank	108	126	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Page 38 of 219

Job ID: 890-3484-1 SDG: 03E1558138

Prep Type: Total/NA

Client: Ensolum Project/Site: Remuda 100 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40279/5-A Matrix: Solid Analysis Batch: 40266	мв	МВ				Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/22 10:46	11/23/22 13:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/22 10:46	11/23/22 13:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/22 10:46	11/23/22 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/23/22 10:46	11/23/22 13:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/22 10:46	11/23/22 13:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/23/22 10:46	11/23/22 13:13	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			11/23/22 10:46	11/23/22 13:13	1
1,4-Difluorobenzene (Surr)	102		70 - 130			11/23/22 10:46	11/23/22 13:13	1

Lab Sample ID: LCS 880-40279/1-A Matrix: Solid

Analysis Batch: 40266

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07796		mg/Kg		78	70 - 130	
Toluene	0.100	0.09316		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.1035		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	0.200	0.2014		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.07886		mg/Kg		79	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-40279/2-A

Matrix: Solid

Analysis Batch: 40266							Prep	Batch:	40279
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08511		mg/Kg		85	70 - 130	9	35
Toluene	0.100	0.1020		mg/Kg		102	70 - 130	9	35
Ethylbenzene	0.100	0.09992		mg/Kg		100	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1800		mg/Kg		90	70 - 130	11	35
o-Xylene	0.100	0.08784		mg/Kg		88	70 - 130	11	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-21911-A-13-C MS

Matrix: Solid

Analysis Batch: 40266									Pre	Batch: 40279
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.101	0.08895		mg/Kg		88	70 - 130	
Toluene	<0.00202	U	0.101	0.1013		mg/Kg		100	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 40279

Client: Ensolum Project/Site: Remuda 100 CTB

1,4-Difluorobenzene (Surr)

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

Lab Sample ID: 880-21911-4	A-13-C MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep 1	Type: Tot	tal/NA
Analysis Batch: 40266									Prep	Batch:	40279
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	< 0.00202	U	0.101	0.09801		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene	<0.00403	U	0.202	0.1772		mg/Kg		88	70 - 130		
o-Xylene	<0.00202	U	0.101	0.08434		mg/Kg		83	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	94		70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								
Lab Sample ID: 880-21911-4	A-13-D MSD					CI	ient Sa	ample ID	: Matrix S	oike Dup	olicate
Matrix: Solid									Prep 1	Type: Tot	tal/NA
Analysis Batch: 40266									Prep	Batch:	40279
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
				0.00007					70 400		0.5

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	< 0.00202	U	0.0996	0.09297		mg/Kg		93	70 - 130	4	35
Toluene	<0.00202	U	0.0996	0.1113		mg/Kg		112	70 - 130	9	35
Ethylbenzene	<0.00202	U	0.0996	0.1068		mg/Kg		107	70 - 130	9	35
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1930		mg/Kg		97	70 - 130	9	35
o-Xylene	<0.00202	U	0.0996	0.09242		mg/Kg		92	70 - 130	9	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		70 - 130								

70 - 130

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

95

Lab Sample ID: MB 880-40185/1- Matrix: Solid Analysis Batch: 40170						Client Sa	mple ID: Metho Prep Type: 1 Prep Batcl	Total/NA
Amelida	MB	MB	Ы	11-14		Drenered	Amelymed	Dil Fac
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	DIFac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/22/22 08:09	11/22/22 08:21	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/22/22 08:09	11/22/22 08:21	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/22/22 08:09	11/22/22 08:21	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			11/22/22 08:09	11/22/22 08:21	1
o-Terphenyl	126		70 - 130			11/22/22 08:09	11/22/22 08:21	1
Lab Sample ID: LCS 880-40185/2	2- A				c	lient Sample I	D: Lab Control	Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 40170 Prep Batch: 40185 %Rec Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits 1000 816.2 82 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 988.2 mg/Kg 99 70 - 130 C10-C28)

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Client: Ensolum Project/Site: Remuda 100 CTB

Method: 8015B NM - Di 0 47 4.5

Lab Sample ID: LCS 880-401	185/2-4						Client	Sample	e ID: Lab Co	ontrol S	amplo
Matrix: Solid	0 0/2- A						Client	Sample		ype: To	
Analysis Batch: 40170									Prep	Batch:	40185
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	163	S1+	70 _ 130								
o-Terphenyl	190	S1+	70 - 130								
Lab Sample ID: LCSD 880-40	0185/3-A					Clier	nt San	nple ID:	Lab Contro	Sampl	le Dup
Matrix: Solid										ype: To	
Analysis Batch: 40170										Batch:	
······			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	827.6		mg/Kg		83	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	925.3		mg/Kg		93	70 - 130	7	20
C10-C28)											
		LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane		S1+	70 - 130								
o-Terphenyl	180	S1+	70 - 130								
Lab Sample ID: 890-3499-A-1	1-C MS							Client	Sample ID:	: Matrix	Spike
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 40170										Batch:	
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	865.2		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1010		mg/Kg		99	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
o-Terphenyl	101		70 - 130								
_ Lab Sample ID: 890-3499-A-1						Cli	ent S	amnio IF	D: Matrix Sp	niko Dur	olicato
Matrix: Solid										уре: То	
										, po. 10	COLUMN TO TA

Lab Sample ID: 89 Matrix: Solid

Analysis Batch: 40170

Analysis Batch: 40170									Prep	Batch:	40185
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1028		mg/Kg		101	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1191		mg/Kg		117	70 - 130	16	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	118		70 - 130

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Job ID: 890-3484-1 SDG: 03E1558138

QC Sample Results

Job ID: 890-3484-1 SDG: 03E1558138

Client: Ensolum Project/Site: Remuda 100 CTB

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39830/1-A Matrix: Solid									Ŭ		ample ID: Prep	Type: S	
Analysis Batch: 40139													
		MB MB											
Analyte	Re	esult Qua	lifier	RL		Uni	t	D	Pre	pared	Analyz	zed	Dil Fac
Chloride	<	5.00 U		5.00		mg/	Kg				11/21/22	23:52	1
Lab Sample ID: LCS 880-39830/2-A								Clie	ent S	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid											Prep	Type: S	oluble
Analysis Batch: 40139													
			Spike		LCS	LCS					%Rec		
Analyte			Addec		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride			250		256.0		mg/Kg			102	90 _ 110		
Lab Sample ID: LCSD 880-39830/3-	Α						CI	ient S	amp	le ID: I	Lab Contro	ol Sampl	le Dur
Matrix: Solid											Prep	Type: S	olubl
Analysis Batch: 40139													
			Spike		LCSD	LCSD					%Rec		RPD
Analyte			Addec		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride			250		256.0		mg/Kg			102	90 - 110	0	20
Lab Sample ID: 890-3481-A-1-B MS										Client	Sample ID): Matrix	Spike
Matrix: Solid												Type: S	
Analysis Batch: 40139													
	Sample	Sample	Spike		MS	MS					%Rec		
Analyte	Result	Qualifier	Addec		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	105		250		373.7		mg/Kg			108	90 - 110		
Lab Sample ID: 890-3481-A-1-C MS	D							Client	San	nple ID	: Matrix S	pike Du	olicate
Matrix: Solid												Type: S	
Analysis Batch: 40139											•		
-	Sample	Sample	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Addec		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi

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QC Association Summary

Client: Ensolum Project/Site: Remuda 100 CTB

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Job ID: 890-3484-1 SDG: 03E1558138

GC VOA

Analysis Batch: 40266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3484-1	SS01	Total/NA	Solid	8021B	40279
890-3484-2	SS02	Total/NA	Solid	8021B	40279
MB 880-40279/5-A	Method Blank	Total/NA	Solid	8021B	40279
LCS 880-40279/1-A	Lab Control Sample	Total/NA	Solid	8021B	40279
LCSD 880-40279/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40279
880-21911-A-13-C MS	Matrix Spike	Total/NA	Solid	8021B	40279
880-21911-A-13-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40279

Prep Batch: 40279

	Mathy Spike Dupilcate	TOTAI/NA	Solid	00210	40279	0
Prep Batch: 40279						0
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	9
890-3484-1	SS01	Total/NA	Solid	5035		
890-3484-2	SS02	Total/NA	Solid	5035		
MB 880-40279/5-A	Method Blank	Total/NA	Solid	5035		
LCS 880-40279/1-A	Lab Control Sample	Total/NA	Solid	5035		
LCSD 880-40279/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
880-21911-A-13-C MS	Matrix Spike	Total/NA	Solid	5035		
880-21911-A-13-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		
Analysis Batch: 40483						13

Analysis Batch: 40483

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3484-1	SS01	Total/NA	Solid	Total BTEX	
890-3484-2	SS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 40170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3484-1	SS01	Total/NA	Solid	8015B NM	40185
890-3484-2	SS02	Total/NA	Solid	8015B NM	40185
MB 880-40185/1-A	Method Blank	Total/NA	Solid	8015B NM	40185
LCS 880-40185/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40185
LCSD 880-40185/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40185
890-3499-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	40185
890-3499-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40185

Prep Batch: 40185

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3484-1	SS01	Total/NA	Solid	8015NM Prep	
890-3484-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-40185/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40185/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40185/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3499-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3499-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3484-1	SS01	Total/NA	Solid	8015 NM	
890-3484-2	SS02	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 890-3484-1

SDG: 03E1558138

HPLC/IC

Leach Batch: 39830

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-3484-1	SS01	Soluble	Solid	DI Leach	
90-3484-2	SS02	Soluble	Solid	DI Leach	
1B 880-39830/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-39830/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
CSD 880-39830/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
90-3481-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
90-3481-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
alysis Batch: 40139			Madain	Mathad	Draw Datab
alysis Batch: 40139			Matrix	Method	Pren Batch
		Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 39830
aalysis Batch: 40139 ab Sample ID	Client Sample ID	Ргер Туре			
ab Sample ID 90-3484-1	Client Sample ID SS01	Prep Type Soluble Soluble Soluble	Solid	300.0	39830
aalysis Batch: 40139 ab Sample ID 90-3484-1 90-3484-2	Client Sample ID SS01 SS02	Prep Type Soluble Soluble Soluble Soluble	Solid Solid	300.0 300.0	39830 39830
ab Sample ID 90-3484-1 90-3484-2 HB 880-39830/1-A	Client Sample ID SS01 SS02 Method Blank	Prep Type Soluble Soluble Soluble Soluble Soluble Soluble	Solid Solid Solid	300.0 300.0 300.0	39830 39830 39830
ab Sample ID 90-3484-1 90-3484-2 1B 880-39830/1-A CS 880-39830/2-A	Client Sample ID SS01 SS02 Method Blank Lab Control Sample	Prep Type Soluble Soluble Soluble Soluble	Solid Solid Solid Solid	300.0 300.0 300.0 300.0	39830 39830 39830 39830 39830

Analysis Batch: 40139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3484-1	SS01	Soluble	Solid	300.0	39830
890-3484-2	SS02	Soluble	Solid	300.0	39830 🖌
MB 880-39830/1-A	Method Blank	Soluble	Solid	300.0	39830
LCS 880-39830/2-A	Lab Control Sample	Soluble	Solid	300.0	39830
LCSD 880-39830/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39830
890-3481-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	39830
890-3481-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	39830

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Released to Imaging: 4/26/2023 10:00:33 AM

Job ID: 890-3484-1 SDG: 03E1558138

Lab Sample ID: 890-3484-1 Matrix: Solid

Date Collected: 11/15/22 10:30 Date Received: 11/15/22 13:31

Project/Site: Remuda 100 CTB
Client Sample ID: SS01

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	40279	11/23/22 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40266	11/23/22 20:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40483	11/28/22 15:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40310	11/23/22 12:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	40185	11/22/22 09:47	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40170	11/22/22 18:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39830	11/17/22 14:36	СН	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	40139	11/22/22 01:00	СН	EET MID

Client Sample ID: SS02

Date Collected: 11/15/22 10:35 Date Received: 11/15/22 13:31

Lab Sample ID: 890-3484-2 Matrix: Solid

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40279	11/23/22 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40266	11/23/22 21:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40483	11/28/22 15:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40310	11/23/22 12:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	40185	11/22/22 09:47	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40170	11/22/22 19:04	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39830	11/17/22 14:36	СН	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	40139	11/22/22 01:05	СН	EET MID

Laboratory References:

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

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Laboratory: Eurofins Midland

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

thority	P	rogram	Identification Number	Expiration Date
as	N	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report b	ut the laboratory is not certif	ied by the governing authority. This list ma	av include analytes for
the agency does not o	fer certification.	·		
the agency does not of Analysis Method	•	Matrix	Analyte	
the agency does not o	fer certification.	·		

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Job ID: 890-3484-1

SDG: 03E1558138

Eurofins Carlsbad

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 890-3484-1 SDG: 03E1558138

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
MCAWW = SW846 = '	STM International = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, Ma "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	•	
Laboratory Re)	

Protocol References:

Laboratory References:

Client: Ensolum

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Job ID: 890-3484-1 SDG: 03E1558138

Project/Site: Remuda 100 CTB

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3484-1	SS01	Solid	11/15/22 10:30	11/15/22 13:31	0.5'
890-3484-2	SS02	Solid	11/15/22 10:35	11/15/22 13:31	0.5'

Notice: Signature of this document of service. Eurofins Xenco will be lia	Total 200.7 / 6010 Circle Method(s) and						3502	loss	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT		_		ber:	Project Name:	Phone: C	City, State ZIP:			Project Manager:	🔅 eurofins
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	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP							S 11/15/22 1030	on Matrix Date Time Sampled Sampled	Corrected Temperature:	Yes No WA Temperature Reading:	Yes No MTA Correction Factor:	Res No Thermometer ID:	Temp Blank: (Fes) No Wet Ice:		Coherts		31.38. Phou	Reinuda 100 CTB T	989 854 0852 Email	artsbad, NM 88220	3122 Nat'l Parks Huy	Ensalumille	Ben Berill	NS Environment Testing Xenco
e order from client company to Eurofins Xenco, its affi	A 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U						4	0.516 1 X X	d Depth Grab/ # of Cont	2.22	W.C			Res No		TAT starts the day received by		e Rush Pres.	Turn Around	beline	City, State ZIP: Carls	Address: 3104	×	Bill to: (if different)	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
lates and subcontractors. It assigns standard terms	B Cd Ca Cr Co Cu Fe Pb Mg Cd Cr Co Cu Pb Mn Mo Ni Sc					Jue	+		TP		040-040								ANALYSIS REQUEST		Carisbad, NM 88220		Energy	Garrett Green	Chain of Custody TX (281) 240-4200, Dallas, TX (214) 902-0300 (432) 704-5440, San Antonio, TX (210) 509-3334 X (915) 585-3443, Lubbock, TX (806) 794-1296 M (575) 392-7550, Carlsbad, NM (575) 988-3199
and conditions	Ji K Se										-+ Chain of Custody								ST	Deliverables: EDD AD	Reporting: Level II Level III	State of Project:	Program: UST/PST PRP Brownfields	Work Order Comments	Work Order No:
	Ag SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631/245.1/7470/7471			1067631001	Cost Center		NAPP:2226346738	Incident #:	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na 2S 2O 3: NaSO 3	NaHSO 4: NABIS	H ₃ PO ₄ : HP	H ₂ S0 ₄ : H ₂ NaOH: Na		Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	Preservative Codes	ADaPT Other:	PST/UST TRRP Level IV]	rownfields RRC Superfund	Comments	r

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Date/Time

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Revised Date: 08/25/2020 Rev. 2020.2

Received by: (Signature)

11/28/2022

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Job Number: 890-3484-1 SDG Number: 03E1558138

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3484 List Number: 1 Creator: Stutzman, Amanda

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-3484-1 SDG Number: 03E1558138

List Source: Eurofins Midland

List Creation: 11/17/22 02:07 PM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3484 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	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 12/14/2022 8:57:08 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/2/2022 3:58:06 PM

JOB DESCRIPTION

Remuda 100 CTB SDG NUMBER 03E1558138

JOB NUMBER

890-3552-1



See page two for job notes and contact information.

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220 Received by OCD: 12/14/2022 8:57:08 AM

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

RAMER

Generated 12/2/2022 3:58:06 PM

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

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	Definitions/Glossary	
Client: Ensolui Project/Site: R	m Job ID: 890-3552- temuda 100 CTB SDG: 03E155813	
Qualifiers		
GC VOA		- 3
Qualifier	Qualifier Description	
	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	-
F2	MS/MSD RPD exceeds control limits	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	8
HPLC/IC		
Qualifier	Qualifier Description	9
U	Indicates the analyte was analyzed for but not detected.	-
Glossary		- 10
Abbreviation	These commonly used abbreviations may or may not be present in this report.	4.4
¤	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	44
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	

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

Job ID: 890-3552-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3552-1

Receipt

The sample was received on 11/22/2022 3:04 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 5.4°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS04 (890-3552-1).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-40625 and analytical batch 880-40842 was outside the control limits.

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 880-40514 and analytical batch 880-40408 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40514/2-A) and (LCSD 880-40514/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-21947-A-1-D). 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: SS04 (890-3552-1). 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 880-40514 and analytical batch 880-40408 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40514 and analytical batch 880-40408 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC

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

Job ID: 890-3552-1 SDG: 03E1558138

Client Sample ID: SS04

Project/Site: Remuda 100 CTB

Date Collected: 11/22/22 12:40 Date Received: 11/22/22 15:04

Sample Depth: 0.5'

o-Terphenyl

Client: Ensolum

Lab Sample ID: 890-3552-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		11/29/22 16:02	12/02/22 14:48	1
Toluene	<0.00200		0.00200	mg/Kg		11/29/22 16:02	12/02/22 14:48	1
Ethylbenzene	< 0.00200		0.00200	mg/Kg		11/29/22 16:02	12/02/22 14:48	1
m-Xylene & p-Xylene	<0.00200		0.00200			11/29/22 16:02	12/02/22 14:48	
, , ,				mg/Kg				1
o-Xylene	< 0.00200		0.00200	mg/Kg		11/29/22 16:02	12/02/22 14:48	T A
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/29/22 16:02	12/02/22 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			11/29/22 16:02	12/02/22 14:48	1
1,4-Difluorobenzene (Surr)	89		70 - 130			11/29/22 16:02	12/02/22 14:48	1
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/02/22 16:23	1
-	Range Organi	ics (DRO) ((
Method: SW846 8015 NM - Diese Analyte		<mark>ics (DRO) ((</mark> Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
_ Method: SW846 8015 NM - Diese		Qualifier	GC)		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	GC) RL	Unit	D	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte	Result <49.9	Qualifier U	GC)	Unit	<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <49.9	Qualifier U	GC)	Unit	<u>D</u>	Prepared		Dil Fac 1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U nics (DRO) Qualifier	GC) <u>RL</u> 49.9 (GC)	Unit mg/Kg		<u> </u>	11/29/22 12:08	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	GC)	Unit mg/Kg Unit		Prepared	11/29/22 12:08	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	GC) <u>RL</u> (GC) <u>RL</u> 49.9	Unit mg/Kg Unit mg/Kg		Prepared 11/28/22 16:34	Analyzed 11/29/22 05:47	1 Dil Fac 1
Method: SW846 8015 NM - Diese 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	GC) <u>RL</u> (GC) <u>RL</u> 49.9	Unit mg/Kg Unit mg/Kg		Prepared 11/28/22 16:34	Analyzed 11/29/22 05:47	1 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)	Result <49.9	Qualifier U nics (DRO) Qualifier U U U	GC) <u>RL</u> (GC) <u>RL</u> 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/28/22 16:34 11/28/22 16:34	Analyzed 11/29/22 12:08 4.00 11/29/22 15:47 11/29/22 05:47	1 Dil Fac 1 1

_ Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - S	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.7		4.97	mg/Kg			11/29/22 18:56	1

70 - 130

143 S1+

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11/28/22 16:34

11/29/22 05:47

Job ID: 890-3552-1 SDG: 03E1558138

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-3549-A-1-C MS	Matrix Spike	114	102		
890-3549-A-1-D MSD	Matrix Spike Duplicate	104	101		6
890-3552-1	SS04	113	89		
LCS 880-40625/1-A	Lab Control Sample	105	100		
LCSD 880-40625/2-A	Lab Control Sample Dup	104	97		
MB 880-40625/5-A	Method Blank	68 S1-	94		8
Surrogate Legend					
BFB = 4-Bromofluorober	nzene (Surr)				9

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

		1CO1	OTPH1	Percent Surrogate Recovery (Acceptance Limits)
ample ID	Client Sample ID	(70-130)	(70-130)	
47-A-1-E MS	Matrix Spike	120	106	
17-A-1-F MSD	Matrix Spike Duplicate	100	104	
52-1	SS04	144 S1+	143 S1+	
0-40514/2-A	Lab Control Sample	135 S1+	139 S1+	
880-40514/3-A	Lab Control Sample Dup	190 S1+	187 S1+	
880-40514/1-A	Method Blank	136 S1+	150 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Project/Site: Remuda 100 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab	Sa	mple	ID:	MB	880-40625/5-A	

Matrix: Solid Analysis Batch: 40842

	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130			11/29/22 16:02	12/02/22 11:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130			11/29/22 16:02	12/02/22 11:45	1

Lab Sample ID: LCS 880-40625/1-A Matrix: Solid

Analysis Batch: 40842

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1252		mg/Kg		125	70 - 130	
Toluene	0.100	0.1206		mg/Kg		121	70 - 130	
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2198		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	

	LCS LCS					
Surrogate	%Recovery	Qualifier	Limits			
4-Bromofluorobenzene (Surr)	105		70 - 130			
1,4-Difluorobenzene (Surr)	100		70 - 130			

Lab Sample ID: LCSD 880-40625/2-A

Matrix: Solid

Analysis Batch: 40842							Prep	Batch:	40625
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1186		mg/Kg		119	70 - 130	5	35
Toluene	0.100	0.1151		mg/Kg		115	70 - 130	5	35
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2094		mg/Kg		105	70 - 130	5	35
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	0	35

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

Lab Sample ID:

Matrix: Solid

Analysis Batch: 40842									Prep	o Batch: 406	625
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00201	U	0.0996	0.1021		mg/Kg		103	70 - 130		
Toluene	<0.00201	U	0.0996	0.1062		mg/Kg		107	70 - 130		

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 40625

			Added	Result	Qualifier	Unit	D
			0.100	0.1186		mg/Kg	
			0.100	0.1151		mg/Kg	
			0.100	0.1044		mg/Kg	
ne			0.200	0.2094		mg/Kg	
			0.100	0.1069		mg/Kg	
	LCSD	LCSD					
	%Recovery	Qualifier	Limits				
ene (Surr)	104		70 - 130				
e (Surr)	97		70 - 130				
: 890-3549-A-	1-C MS						
n: 40842							
	Sample	Sample	Spike	MS	MS		
	Result	Qualifier	Added	Result	Qualifier	Unit	D
	< 0.00201	U	0.0996	0.1021		mg/Kg	

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 40625

1	
-	

Client: Ensolum Project/Site: Remuda 100 CTB

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

Lab Sample ID: 890-3549-A-	1-C MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 40842									Prep	Batch:	40625
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	< 0.00201	U	0.0996	0.1009		mg/Kg		101	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2022		mg/Kg		101	70 - 130		
o-Xylene	<0.00201	U	0.0996	0.1035		mg/Kg		104	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								
Lab Sample ID: 890-3549-A-	1-D MSD					Cli	ent Sa	ample ID	: Matrix Sp	oike Dur	olicate
Matrix: Solid										ype: To	
Analysis Batch: 40842										Batch:	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	<0.00201	U	0.0990	0.09136		mg/Kg		92	70 - 130	11	35
Benzene			0.0990	0.09165		mg/Kg		93	70 - 130	15	35
	<0.00201	U	0.0990	0.00100							
Toluene	<0.00201 <0.00201		0.0990	0.08677		mg/Kg		88	70 - 130	15	35
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene		U				mg/Kg mg/Kg		88 87	70 ₋ 130 70 ₋ 130	15 15	35 35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-40514/1- Matrix: Solid Analysis Batch: 40408	Α					Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
Analysis Datch. 40400	МВ	мв					Fiep Datci	1. 403 14
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 06:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 06:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 06:30	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			11/28/22 16:34	11/29/22 06:30	1
o-Terphenyl	150	S1+	70 - 130			11/28/22 16:34	11/29/22 06:30	1
_ Lab Sample ID: LCS 880-40514/2	2-A				c	lient Sample I	D: Lab Control	Sample

Matrix: Solid Analysis Batch: 40408

Analysis Batch: 40408							Prep	Batch: 40514
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1074		mg/Kg		107	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	995.7		mg/Kg		100	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Client: Ensolum Project/Site: Remuda 100 CTB

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

Lab Sample ID: LCS 880-40	514/2-A						Client	t Sample	ID: Lab Co		
Matrix: Solid									Prep 1	уре: То	tal/NA
Analysis Batch: 40408									Prep	Batch:	40514
	LCS	LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane		S1+	70 - 130								
o-Terphenyl		S1+	70 - 130								
Lab Sample ID: LCSD 880-4	0514/3-A					Clier	nt San	nple ID:	Lab Contro	Sampl	e Dup
Matrix: Solid										ype: To	
Analysis Batch: 40408										Batch:	
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	903.6		mg/Kg		90	70 - 130	17	20
(GRO)-C6-C10						5, 2					
Diesel Range Organics (Over			1000	990.3		mg/Kg		99	70 - 130	1	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane		S1+	70 - 130								
o-Terphenyl		S1+	70 - 130								
	107	011	101100								
Lab Sample ID: 880-21947-A	A-1-E MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										уре: То	-
Analysis Batch: 40408										Batch:	
· · · · · , · · · · · · · · · · · · · · · · · · ·	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	-	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U F2	999	1202		mg/Kg		117	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U F1	999	1382	F1	mg/Kg		138	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery		Limits								
1-Chlorooctane		duumer	70 - 130								
o-Terphenyl	120		70 - 130								
-	100		10 - 100								
Lab Sample ID: 880-21947-4	A-1-F MSD					Cli	ient S	ample IC): Matrix Sp	oike Dur	olicate
Matrix: Solid									-	ype: To	
Analysis Batch: 40408										Batch:	
Analysis Baton: 40400	Sample	Sample	Spike	MSD	MSD				%Rec	Datom	RPD
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			997	926.9		_ mg/Kg		90	70 - 130	26	20
(GRO)-C6-C10	-00.0	U. L	557	520.3				00	10-100	20	20
Diesel Range Organics (Over	<50.0	U F1	997	1267		mg/Kg		127	70 - 130	9	20
C10-C28)						2 0					
	мSD	MSD									

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Surrogate 1-Chlorooctane

o-Terphenyl

%Recovery Qualifier

100

104

Limits

70 - 130

70 - 130

QC Sample Results

Job ID: 890-3552-1 SDG: 03E1558138

Client: Ensolum Project/Site: Remuda 100 CTB

Method: 300.0 - Anions, Ion Chromatography

-														
Lab Sample ID: MB 880-40386/1-A										Clie	nt Sa	mple ID:		
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 40550														
		MB												
Analyte			Qualifier		RL		Uni	-	D	Prepare	ed	Analyz		Dil Fac
Chloride	•	<5.00	U		5.00		mg/	Kg				11/29/22 (09:19	-
Lab Sample ID: LCS 880-40386/2-/	4								Clie	nt San	nple I	D: Lab Co	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 40550														
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifier	Unit	0) %R	ec	Limits		
Chloride				250		241.4		mg/Kg		(97	90 - 110		
Lab Sample ID: LCSD 880-40386/3	- A							CI	ient Sa	imple I	D: La	ab Contro	I Sampl	e Du
Matrix: Solid										· ·			Type: S	
Analysis Batch: 40550														
				Spike		LCSD	LCSD					%Rec		RPI
Analyte				Added		Result	Qualifier	Unit) %R	ec	Limits	RPD	Limi
Chloride				250		242.0		mg/Kg			97	90 - 110	0	20
Lab Sample ID: 890-3551-A-4-A M	S									Cli	ent S	ample ID	: Matrix	Spike
Matrix: Solid													Type: S	
Analysis Batch: 40550														
-	Sample	Sam	ple	Spike		MS	MS					%Rec		
Analyte	Result	Qual	ifier	Added		Result	Qualifier	Unit	0) %R	ec	Limits		
Chloride	48.9			249		299.9		mg/Kg		1(01	90 - 110		
 Contract of the second s														liest
Lab Sample ID: 890-3551-A-4-A M	SD								Client	Sampl	e ID:	Matrix Sr	oike Dur	IICar
	SD								Client	Sampl	e ID:	Matrix Sp Prep	-	
Lab Sample ID: 890-3551-A-4-A M Matrix: Solid Analysis Batch: 40550	SD								Client	Sampl	e ID:	-	oike Dup Type: S	
	SD Sample	Samı	ple	Spike		MSD	MSD		Client	Sampl	e ID:	-	-	oluble
Matrix: Solid				Spike Added			MSD Qualifier	Unit	Client	-		Prep	-	

QC Association Summary

Client: Ensolum Project/Site: Remuda 100 CTB

Job ID: 890-3552-1 SDG: 03E1558138

GC VOA

Prep Batch: 40625

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3552-1	SS04	Total/NA	Solid	5035	
MB 880-40625/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40625/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40625/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3549-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3549-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 40842 Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3552-1		Total/NA	Solid	8021B	40625
MB 880-40625/5-A	Method Blank	Total/NA	Solid	8021B	40625
LCS 880-40625/1-A	Lab Control Sample	Total/NA	Solid	8021B	40625
LCSD 880-40625/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40625
890-3549-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	40625
890-3549-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40625
nalysis Batch: 40912	1				
	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Lab Sample ID		Total/NA	Solid	Total BTEX	

Analysis Batch: 40408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3552-1	SS04	Total/NA	Solid	8015B NM	40514
MB 880-40514/1-A	Method Blank	Total/NA	Solid	8015B NM	40514
LCS 880-40514/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40514
LCSD 880-40514/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40514
880-21947-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	40514
880-21947-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40514

Prep Batch: 40514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3552-1	SS04	Total/NA	Solid	8015NM Prep	
MB 880-40514/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40514/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40514/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21947-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-21947-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
nalysis Batch: 40607					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

Solid

8015 NM

890-3552-1 HPLC/IC

Leach Batch: 40386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-3552-1	SS04	Soluble	Solid	DI Leach
MB 880-40386/1-A	Method Blank	Soluble	Solid	DI Leach
LCS 880-40386/2-A	Lab Control Sample	Soluble	Solid	DI Leach
LCSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach

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SS04

Client: Ensolum Project/Site: Remuda 100 CTB

HPLC/IC (Continued)

Leach Batch: 40386 (Continued)

Lab Sample ID 890-3551-A-4-A MS	Client Sample ID Matrix Spike	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-3551-A-4-A MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
Analysis Batch: 40550					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-3552-1	SS04	Soluble	Solid	300.0	40386	
MB 880-40386/1-A	Method Blank	Soluble	Solid	300.0	40386	
LCS 880-40386/2-A	Lab Control Sample	Soluble	Solid	300.0	40386	8
LCSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40386	
890-3551-A-4-A MS	Matrix Spike	Soluble	Solid	300.0	40386	9
890-3551-A-4-A MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	40386	

Job ID: 890-3552-1

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Eurofins Carlsbad

Job ID: 890-3552-1 SDG: 03E1558138

Lab Sample ID: 890-3552-1 Matrix: Solid

Client Sample ID: SS04 Date Collected: 11/22/22 12:40 Date Received: 11/22/22 15:04

Project/Site: Remuda 100 CTB

Client: Ensolum

	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	40625	11/29/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40842	12/02/22 14:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40912	12/02/22 16:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			40607	11/29/22 12:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40514	11/28/22 16:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40408	11/29/22 05:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40386	11/28/22 08:56	СН	EET MID
Soluble	Analysis	300.0		1			40550	11/29/22 18:56	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 4/26/2023 10:00:33 AM

Laboratory: Eurofins Midland

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

uthority	F	Program	Identification Number	Expiration Date
xas	Ν	NELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, t	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for
the agency does not o		Matrix	Δnalvte	
Analysis Method	fer certification . Prep Method	Matrix	Analyte	
0,		Matrix Solid Solid	Analyte Total TPH Total BTEX	

12/2/2022

Job ID: 890-3552-1

SDG: 03E1558138

Job ID: 890-3552-1 SDG: 03E1558138

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 80158 NM Diesel Range Organics (DRO) (GC) SW846 EET MID 80158 NM Diesel Range Organics (DRO) (GC) SW846 EET MID 800.0 Anions, Ion Chromatography MCCAWW EET MID 5035 Closed System Purge and Trap SW846 EET MID 8015NM Prep Microextraction SW846 EET MID 8015NM Prep Microextraction SW846 EET MID 8015NM Prep Microextraction SW846 EET MID Protocol References: ASTM ASTM EET MID ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Chemical Analysis Of Water And Wastes", 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	Method	Method Description	Protocol	Laboratory
8015 NMDiesel Range Organics (DRO) (GC)SW846EET MID8015 NMDiesel Range Organics (DRO) (GC)SW846EET MID300.0Anions, Ion ChromatographyMCAWWEET MID5035Closed System Purge and TrapSW846EET MID8015 NM PrepMicroextractionSW846EET MIDDI LeachDeionized Water Leaching ProcedureSW846EET MIDProtocol References:ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating ProcedureSU	8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM Diesel Range Organics (DRO) (GC) SW846 EET MID 300.0 Anions, Ion Chromatography MCAWW EET MID 5035 Closed System Purge and Trap SW846 EET MID 8015NM Prep Microextraction SW846 EET MID 8015NM Prep Microextraction SW846 EET MID DI Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References: Laboratory References: Standard Operating Procedure	Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
300.0 Anions, Ion Chromatography MCAWW EET MID 5035 Closed System Purge and Trap SW846 EET MID 8015NM Prep Microextraction SW846 EET MID 8015NM Di Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035 Closed System Purge and Trap SW846 EET MID 8015NM Prep Microextraction SW846 EET MID DI Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
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DI Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	5035	Closed System Purge and Trap	SW846	EET MID
Protocol References: ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	8015NM Prep	Microextraction	SW846	EET MID
ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
	SW846 =	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ec	•	
EET MID – Euronns Midland, 1211 W. Fionda Ave, Midland, 1X 79701, TEL (432)704-3440				
		- Euronins withand, 1211 W. Fiolida Ave, withand, 1X / 9/01, 1EL (432)/04-3440		

Protocol References:

Laboratory References:

Sample Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 890-3552-1 SDG: 03E1558138

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3552-1	SS04	Solid	11/22/22 12:40	11/22/22 15:04	0.5'	4
						5
						8
						9
						12
						13

ioi Page of	mments mnfelds RRC	Preservative Codes None: NO DI W ater: H ₂ O Cool: Cool MeOH: Me HSO 4: H2 NaOH: Na H3PO 4: NABIS NaOH: Na NaSS 4: NABIS NaOH: Na NaPS 4: NABIS NaOH: Na NaPS 0.5 (NaSO 3) Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC Sample Comments Incuident #1: NAPP2221b346'1338 O.G. The Plant NaOH: Acid: SAPC	Va Sr Tl Sn U V Zn 245.1/7470 / 7471 nature) Date/Time	Revised Date: 08/25/2020 Rev. 2020 2
Work Order No:	WWWXFRLOLGUIT Work Order C Program: UST/PST PRP Bro State of Project: Reporting: Level II Level III 1 Peliverables: EDD ADa		li K Se Ag SiO ₂ 1 Hg: 1631 / lated. Received by: (Sig	
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	Carrett Green XTO Energy Sillt E Greene St Carlsbad ANM 88220	ANALYSIS REQUEST ANALYS	s Ba Be B Cd Ca Cr Co Cu Fe As Ba Be Cd Cr Co Cu Pb Mn N Renco, its affiliates and subcontractors. It assigns sta reured by the client if such losses are due to circum res Xenco, but not analyzed. These terms will be enf ate/Time Relinquished by:	0
Ch. Houston, TX (2 Midland, TX (913 EL Paso, TX (913 Hobbs, NM (57)	Bill to: (if different) Company Name: V V Address: City, State ZIP: Email:	Turn Around Turn Around Pres. Raoutine Rush Due Date: Rush Pres. Due Date: Ready received by Pres. Wet Icc: Pres. Pres. Dome Date: Reading: F. Gode ID: Thm Around Pres. Wet Icc: Pres. Pres. D: Thm Around Pres. Wet Icc: Pres. Pres. ID: Thm Around Pres. ID: Thm Around Pres. Pres. Pres. Pres. ID: Thm Around Pres. <td< td=""><td>A 13PPM Texas 11 AI Sb A: TCLP / SPLP 6010 : 8RCRA Sb / urchase order from client company to Eurofins 3 te any responsibility for any losses or expenses in harge of S5 for each sample submitted to Eurofi ignature) Di</td><td></td></td<>	A 13PPM Texas 11 AI Sb A: TCLP / SPLP 6010 : 8RCRA Sb / urchase order from client company to Eurofins 3 te any responsibility for any losses or expenses in harge of S5 for each sample submitted to Eurofi ignature) Di	
fins Environment Testing Xenco	Ben Belill Ensolum, LLC 3122 Nat'l Parks Huu Carlsbad, NM 88220 989-854-0853 Emai	CEMULAL 100 CTB 0.371108-103.94295 AECEVITH Rubert3 AECEVITH Rubert3 Ves No NIA Temperature Ves No NIA Temperature Ves No NIA Temperature T S 11/22/22	Total 200.7 / 6010 200.8 / 6020: BRCRA 13PPA Circle Method(s) and Metal(s) to be analyzed TCLP / SP Volice: Signature of this document and relinquishment of samples constitutes a valid purchase order of service. Eucofine Xenco will be liable only for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for the cost of samples to each project and a charge of \$5 for a transmenter and \$5 for the cost of samples to each project and a charge of \$5 for the cost	
🐝 eurofins	Project Manager: Company Name: Address: City, State ZIP: Phone:	Project Name: 03 Project Location: 03 Sampler's Name: 03 PO #: 8 PO #: 8 Samples Received Intact: Cooler Custody Seals: Total Containers: 5 SS 04	Total 200.7 / 6010 200 Circle Method(s) and Metal(Notice: Signature of this document and reling of Eurofins Xenco will be liable enty for the Eurofins Xenco. Aminimum charge of 585. Definition of the dot of the context of the of the of the context of the of th	S.

12/2/2022

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Received by OCD: 12/14/2022 8:57:08 AM

	A Yes A No	Relinquished by Date	Relinquished by Date	Alve	linquished by	Deliverable Requested 1 II III IV Other (specify) Prin	Possible Hazard Identification Unconfirmed	Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.								SS04 (890-3552-1)		Sample Identification - Client ID (Lab ID) Sa	ite SSOW#	ect Name muda 100 CTB	Email WO#	Phone PO # PO # 432-704-5440(Tel)	State, Zip TX, 79701	City TAT Midland	Address Due 1211 W Florida Ave 11/3	v s Environment Testing South Centr	Client Contact: Phone: Shipping/Receiving	ormation (Sub Contract Lab)	1069 N Canal St. Carlsbad, NM 88220 Phone 575-988-3199 Fax: 575-988-3199	Eurofins Carlsbad
		Date/Time	Date/Time.	Date/Time:		Primary Deliverable Rank		ng South Cent r analysis/testa LC attention ir								11/22/22	X	Sample Date	N#	Project #: 89000093	*			TAT Requested (days)	Due Date Requested 11/30/2022		œ	oler		
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							tained long Archive For	nt is for er instru ofins E	60-0-00	<u>Banna</u>		ttran f	<u>Stolens</u>	<u>louideac</u> d	Carrotte	in Bad			Other:	ר א ק ד	<u></u>		n m O	(m)	Pres	:# qof	Page [.] Page	COC No: 890-10	e e	
			1	1721			fee may be assessed if samples are retained longer than 1 month) t Disposal By Lab Archive For Mon	warded under .rctions will be .nvironment Tr										Special I	Ť	EDA	lce DI Water	MeUH Amchlor Ascorbic Acid	Nitric Acid NaHSO4	NaOH Zn Acetate	Preservation Codes	Job #: 890-3552-1	^p age [.] Page 1 of 1	COC No: 890-1042 1	🔅 eurofins	
V	╞	8	ç	ç			1 mo	- chain- provide esting S								1000 AU	1	nstru		NЧ	ξ < ⊂	:⊣v	που	οz	odes M -					
Ver [.] 06/08/2021		Company	Company	Company			o nth) Months	of-custody If the ed Any changes the South Central LLC									$\left \right $	Special Instructions/Note:			Acetone MCAA	S H2SO4 T TSP Dodecahydrate	Na2O4S - Na2SO3 Na2S2O3		- Hexane				Environment Testing	

5

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3552 List Number: 1 Creator: Stutzman, Amanda

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

Job Number: 890-3552-1 SDG Number: 03E1558138

List Source: Eurofins Carlsbad

Eurofins Carlsbad Released to Imaging: 4/26/2023 10:00:33 AM

14

Job Number: 890-3552-1 SDG Number: 03E1558138

List Source: Eurofins Midland

List Creation: 11/23/22 11:47 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3552 List Number: 2 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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").
Received by OCD: 12/14/2022 8:57:08 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/2/2022 3:59:07 PM

JOB DESCRIPTION

Remuda 100 CTB SDG NUMBER 03E1558138

JOB NUMBER

890-3555-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Received by OCD: 12/14/2022 8:57:08 AM

1

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

RAMER

Generated 12/2/2022 3:59:07 PM

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

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

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	Definitions/Glossary	
Client: Ensolur Project/Site: R	m Job ID: 890-3555- Remuda 100 CTB SDG: 03E155813	
Qualifiers		- 3
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	-
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA	A	
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	-
F2	MS/MSD RPD exceeds control limits	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	-
Glossary		- 1
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	

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

Job ID: 890-3555-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: Remuda 100 CTB

Narrative

Job Narrative 890-3555-1

Receipt

The sample was received on 11/22/2022 3:00 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 5.4°C

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-40625 and analytical batch 880-40842 was outside the control limits.

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 880-40514 and analytical batch 880-40408 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40514/2-A) and (LCSD 880-40514/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-21947-A-1-D). 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: BH02A (890-3555-1). 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 880-40514 and analytical batch 880-40408 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40514 and analytical batch 880-40408 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC

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

Client Sample ID: BH02A

Project/Site: Remuda 100 CTB

Date Collected: 11/22/22 11:15

Client: Ensolum

Chloride

Lab Sample ID: 890-3555-1

Analyzed

12/02/22 16:07

12/02/22 16:07

12/02/22 16:07

12/02/22 16:07

12/02/22 16:07

12/02/22 16:07

Analyzed

12/02/22 16:07

12/02/22 16:07

11/29/22 12:58

D

Prepared 11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

Prepared

11/29/22 16:02

11/29/22 16:02

Matrix: Solid

Dil Fac

1

1

1

1

1

1

1

1

5

Dil Fac

5

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)		
Analyte	Result	Qualifier	RL	
Benzene	<0.00201	U	0.00201	
Toluene	<0.00201	U	0.00201	
Ethylbenzene	<0.00201	U	0.00201	
m-Xylene & p-Xylene	<0.00402	U	0.00402	
o-Xylene	<0.00201	U	0.00201	
Xylenes, Total	<0.00402	U	0.00402	
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	102		70 - 130	
1,4-Difluorobenzene (Surr)	100		70 - 130	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/02/22 16:26	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			11/29/22 12:08	1

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

1570

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 05:47	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 05:47	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 05:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130			11/28/22 16:34	11/29/22 05:47	1
o-Terphenyl	146	S1+	70 - 130			11/28/22 16:34	11/29/22 05:47	1
 Method: MCAWW 300.0 - Anions	. Ion Chromato	ography - Se	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

24.8

mg/Kg

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3549-A-1-C MS	Matrix Spike	114	102	
890-3549-A-1-D MSD	Matrix Spike Duplicate	104	101	
890-3555-1	BH02A	102	100	
LCS 880-40625/1-A	Lab Control Sample	105	100	
LCSD 880-40625/2-A	Lab Control Sample Dup	104	97	
MB 880-40625/5-A	Method Blank	68 S1-	94	
.				
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
947-A-1-E MS	Matrix Spike	120	106	
1947-A-1-F MSD	Matrix Spike Duplicate	100	104	
555-1	BH02A	137 S1+	146 S1+	
)-40514/2-A	Lab Control Sample	135 S1+	139 S1+	
880-40514/3-A	Lab Control Sample Dup	190 S1+	187 S1+	
80-40514/1-A	Method Blank	136 S1+	150 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Project/Site: Remuda 100 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample	ID: MB 880-40625/5-A

Matrix: Solid Analysis Batch: 40842

	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130			11/29/22 16:02	12/02/22 11:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130			11/29/22 16:02	12/02/22 11:45	1

Lab Sample ID: LCS 880-40625/1-A Matrix: Solid

Analysis Batch: 40842

	Spike	LCS I	LCS			%Rec	
Analyte	Added	Result (Qualifier Unit	D	%Rec	Limits	
Benzene	0.100	0.1252	mg/Kg		125	70 - 130	
Toluene	0.100	0.1206	mg/Kg		121	70 - 130	
Ethylbenzene	0.100	0.1093	mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2198	mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1069	mg/Kg		107	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-40625/2-A

Matrix: Solid

Analysis Batch: 40842							Prep	Batch:	40625
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1186		mg/Kg		119	70 - 130	5	35
Toluene	0.100	0.1151		mg/Kg		115	70 - 130	5	35
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2094		mg/Kg		105	70 - 130	5	35
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	0	35

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

Lab Sample ID: 890-3549-A-1-C MS

Matrix: Solid

Analysis Batch: 40842									Prep	o Batch: 40625
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.1021		mg/Kg		103	70 - 130	
Toluene	<0.00201	U	0.0996	0.1062		mg/Kg		107	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

13

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 40625

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: 890-3549-A-1-C MS

QC Sample Results

MS MS

0.1009

0.2022

0.1035

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0996

0.199

0.0996

Limits 70 - 130

70 - 130

70 - 130

70 - 130

Client: Ensolum Project/Site: Remuda 100 CTB

Matrix: Solid

Analyte

o-Xylene

Surrogate

Matrix: Solid

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 40842

4-Bromofluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

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

Sample Sample

MS MS

%Recovery Qualifier

114

102

104

101

<0.00201 U

<0.00402 U

<0.00201 U

Result Qualifier

Job ID: 890-3555-1 SDG: 03E1558138

Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 40625 %Rec Limits 70 - 130 70 - 130 70 - 130 7

	Prep 1	Type: Tot	al/NA
	Prep	Batch:	40625
	%Rec		RPD
Rec	Limite	PPD	Limit

Client Sample ID: Matrix Spike Duplicate

%Rec

101

101

104

D

Analysis Batch: 40842

Lab Sample ID: 890-3549-A-1-D MSD

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00201	U	0.0990	0.09136		mg/Kg		92	70 - 130	11	35	
Toluene	<0.00201	U	0.0990	0.09165		mg/Kg		93	70 - 130	15	35	ī
Ethylbenzene	<0.00201	U	0.0990	0.08677		mg/Kg		88	70 - 130	15	35	
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1732		mg/Kg		87	70 - 130	15	35	ĩ
o-Xylene	<0.00201	U	0.0990	0.08889		mg/Kg		90	70 - 130	15	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									

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

Lab Sample ID: MB 880-40514/1- Matrix: Solid Analysis Batch: 40408						Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	Total/NA
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 06:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 06:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 06:30	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			11/28/22 16:34	11/29/22 06:30	1
o-Terphenyl	150	S1+	70 - 130			11/28/22 16:34	11/29/22 06:30	1
Lab Sample ID: LCS 880-40514/2	2-A				c	lient Sample I	D: Lab Control	Sample

Lab Sample ID: LCS 880-40514/2-A Matrix: Solid Analysis Batch: 40408

Analysis Batch: 40408							Prep	Batch: 40514
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1074		mg/Kg		107	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	995.7		mg/Kg		100	70 - 130	
C10-C28)								

Eurofins Carlsbad

Prep Type: Total/NA

Client: Ensolum Project/Site: Remuda 100 CTB

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

vietnou. ou i 36 i vivi - Dies	Ser Kange Of	games (E		Jonunue	<u>, u)</u>							
Lab Sample ID: LCS 880-40	514/2-A						Client	t Sample	e ID: Lab Co			
Matrix: Solid										Туре: То		
Analysis Batch: 40408									Prep	Batch:	40514	
	LCS	LCS										
Surrogate	%Recovery	Qualifier	Limits									Ī
1-Chlorooctane		S1+	70 _ 130									
o-Terphenyl	139	S1+	70 - 130									T
- - - Lok Comple ID: LCCD 990 /	10544/0 A					Clie	-+ Sam			1.Somn	- Dun	
Lab Sample ID: LCSD 880-4	/0514/3-A					Clier	At Sam	י .טו ואוי.	Lab Contro			
Matrix: Solid										Type: To Ratch:		
Analysis Batch: 40408			Snika		LCSD				Prep %Rec	Batch:	40514 RPD	Ì
Analyte			Spike Added		Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit	
Gasoline Range Organics			Added	903.6	Quanner	_ Unit mg/Kg	— –	90		17	20	ì
(GRO)-C6-C10			1000	300.0		my/ny		30	10 - 100	17	20	
Diesel Range Organics (Over			1000	990.3		mg/Kg		99	70 - 130	1	20	
C10-C28)						<u> </u>						
	LCSD	LCSD										
Surrogate	%Recovery		Limits									
1-Chlorooctane			70 - 130									ł
o-Terphenyl		S1+	70 - 130									
-												
Lab Sample ID: 880-21947-A	A-1-E MS							Client	t Sample ID		-	
Matrix: Solid										Туре: То		
Analysis Batch: 40408										Batch:	40514	
		Sample	Spike		MS	-	_		%Rec			
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics	<50.0	U F2	999	1202		mg/Kg		117	70 - 130			
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	UF1	999	1382	F1	mg/Kg		138	70 - 130			
C10-C28)		011			1.			100	10-10-			
,	MS											
A		MS Qualifier	limito									
Surrogate 1-Chlorooctane	% <i>Recovery</i>											
o-Terphenyl	120		70 - 130 70 - 130									
– –			10-100									
Lab Sample ID: 880-21947-A	A-1-F MSD					CI	lient Sa	ample IC	D: Matrix Sp	pike Dur	plicate	
Matrix: Solid								-		Type: To		
Analysis Batch: 40408										Batch:		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.0	U F2	997	926.9	F2	mg/Kg		90	70 - 130	26	20	
(GRO)-C6-C10 Discol Banga Organica (Over	< 50.0		007	1067				107	70 420	0	20	
Diesel Range Organics (Over C10-C28)	<0.0C>	U F1	997	1267		mg/Kg		127	70 - 130	9	20	
010-020)												
	MCD	MCD										

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	104		70 - 130

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Job ID: 890-3555-1 SDG: 03E1558138

QC Sample Results

Job ID: 890-3555-1 SDG: 03E1558138

Client: Ensolum Project/Site: Remuda 100 CTB

Method: 300.0 - Anions, Ion Chromatography

,		<u> </u>												
Lab Sample ID: MB 880-40386/1-4 Matrix: Solid	4										Client S	ample ID:		
												Prep	Type: S	oluble
Analysis Batch: 40550		мв м	D											
Analysis					ы				_		u a u a u a d	Analı	me d	
Analyte Chloride		esult Q <5.00 U			RL 5.00			nit	D	P	repared	Analy 		Dil Fac
		<5.00 U			5.00		m	g/Kg				11/29/22	09.19	1
Lab Sample ID: LCS 880-40386/2-	A								Cli	ent	Sample	D: Lab C	ontrol S	ample
Matrix: Solid													Type: S	
Analysis Batch: 40550														
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifie	er Unit		D	%Rec	Limits		
Chloride				250		241.4		mg/Kg		_	97	90 - 110		
Lab Sample ID: LCSD 880-40386/	3-A							CI	ient S	am	ple ID:	Lab Contr	ol Sampl	le Dup
Matrix: Solid													Type: S	
Analysis Batch: 40550														
-				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added		Result	Qualifie	er Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		242.0		mg/Kg		_	97	90 - 110	0	20
Lab Sample ID: 890-3551-A-4-A M	IS										Client	Sample II	D: Matrix	Spike
Matrix: Solid													Type: S	
Analysis Batch: 40550														
	Sample	Sample)	Spike		MS	MS					%Rec		
Analyte	Result	Qualifie	ər	Added		Result	Qualifie	er Unit		D	%Rec	Limits		
Chloride	48.9			249		299.9		mg/Kg		_	101	90 - 110		
Lab Sample ID: 890-3551-A-4-A M	ISD								Client	t Sa	ample IC): Matrix S	pike Du	plicate
Matrix: Solid											•		Type: S	
Analysis Batch: 40550														
	<u> </u>	Sample	<u>,</u>	Spike		MSD	MSD					%Rec		RPD
	Sample	oumpio												
Analyte		Qualifie		Added		Result	Qualifie	er Unit		D	%Rec	Limits	RPD	Limit

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QC Association Summary

Client: Ensolum Project/Site: Remuda 100 CTB

8

Job ID: 890-3555-1 SDG: 03E1558138

GC VOA Prep Batch: 40625

Matrix Lab Sample ID **Client Sample ID** Method Prep Batch Prep Type 890-3555-1 BH02A Total/NA Solid 5035 MB 880-40625/5-A Method Blank Total/NA Solid 5035 Total/NA LCS 880-40625/1-A Lab Control Sample Solid 5035 LCSD 880-40625/2-A Lab Control Sample Dup Total/NA Solid 5035 890-3549-A-1-C MS Matrix Spike Total/NA Solid 5035 890-3549-A-1-D MSD Matrix Spike Duplicate Total/NA Solid 5035 Analysis Batch: 40842 Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 890-3555-1 BH02A Total/NA 8021B Solid 40625 MB 880-40625/5-A Method Blank Total/NA Solid 8021B 40625 Total/NA Solid 40625 LCS 880-40625/1-A Lab Control Sample 8021B LCSD 880-40625/2-A Lab Control Sample Dup Total/NA Solid 8021B 40625 890-3549-A-1-C MS Matrix Spike Total/NA Solid 8021B 40625 890-3549-A-1-D MSD Matrix Spike Duplicate Total/NA Solid 8021B 40625 Analysis Batch: 40914 Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch Total BTEX 890-3555-1 BH02A Total/NA Solid GC Semi VOA Analysis Batch: 40408 Lab Sample ID **Client Sample ID** Prep Batch Prep Type Matrix Method 890-3555-1 BH02A Total/NA Solid 8015B NM 40514 MB 880-40514/1-A Method Blank Total/NA Solid 8015B NM 40514 LCS 880-40514/2-A Lab Control Sample Total/NA Solid 8015B NM 40514 LCSD 880-40514/3-A Lab Control Sample Dup Total/NA Solid 8015B NM 40514 880-21947-A-1-E MS Matrix Spike Total/NA Solid 8015B NM 40514 880-21947-A-1-F MSD Total/NA Matrix Spike Duplicate Solid 8015B NM 40514

Prep Batch: 40514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3555-1	BH02A	Total/NA	Solid	8015NM Prep	
MB 880-40514/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40514/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40514/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21947-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-21947-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
Analysis Batch: 40608					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

Solid

8015 NM

HPLC/IC

890-3555-1

Leach Batch: 40386

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3555-1	BH02A	Soluble	Solid	DI Leach	
MB 880-40386/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40386/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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BH02A

HPLC/IC (Continued)

890-3551-A-4-A MS

890-3551-A-4-A MSD

Leach Batch: 40386 (Continued)

Matrix Spike

Matrix Spike Duplicate

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3551-A-4-A MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3551-A-4-A MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
inalysis Batch. 40550					
analysis Dalcii. 40550					
	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Lab Sample ID		Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 40386
Lab Sample ID 890-3555-1	Client Sample ID				
Lab Sample ID 890-3555-1 MB 880-40386/1-A LCS 880-40386/2-A	Client Sample ID BH02A	Soluble	Solid	300.0	40386

Soluble

Soluble

Solid

Solid

300.0

300.0

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5

8

40386

40386

Job ID: 890-3555-1 SDG: 03E1558138

Lab Sample ID: 890-3555-1 Matrix: Solid

Client Sample ID: BH02A Date Collected: 11/22/22 11:15 Date Received: 11/22/22 15:00

Project/Site: Remuda 100 CTB

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	40625	11/29/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40842	12/02/22 16:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40914	12/02/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			40608	11/29/22 12:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40514	11/28/22 16:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40408	11/29/22 05:47	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40386	11/28/22 08:56	СН	EET MID
Soluble	Analysis	300.0		5			40550	11/29/22 12:58	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum Project/Site: Remuda 100 CTB

Laboratory: Eurofins Midland

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

thority (as		Program	Identification Number	Expiration Date		
		NELAP	T104704400-22-24	06-30-23		
The following analytes	are included in this report, b	out the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for whi		
the agency does not o		Matrix				
Analysis Method	fer certification . Prep Method	Matrix	Analyte			
0,		Matrix Solid	Analyte Total TPH			

12/2/2022

Job ID: 890-3555-1 SDG: 03E1558138 4 5 ch 6 7 8 9

10

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 80158 NM Diesel Range Organics (DRO) (GC) SW846 EET MID 80158 NM Diesel Range Organics (DRO) (GC) MCAWW EET MID 800.0 Anions, Ion Chromatography MCAWW EET MID 5035 Closed System Purge and Trap SW846 EET MID 8015NM Prep Microextraction SW846 EET MID 8015NM Prep Microextraction SW846 EET MID 8015NM Prep Microextraction SW846 EET MID Protocol References: ASTM ASTM EET MID ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Chemical Analysis Of Water And Wastes", 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 <th>Method</th> <th>Method Description</th> <th>Protocol</th> <th>Laboratory</th>	Method	Method Description	Protocol	Laboratory
8015 NMDiesel Range Organics (DRO) (GC)SW846EET MID8015 NMDiesel Range Organics (DRO) (GC)SW846EET MID300.0Anions, Ion ChromatographyMCAWWEET MID5035Closed System Purge and TrapSW846EET MID8015 NM PrepMicroextractionSW846EET MIDDI LeachDeionized Water Leaching ProcedureSW846EET MIDASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating ProcedureSUR Hermitianal Laboratory References:SUR Hermitianal Standard Operating Procedure	8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM Diesel Range Organics (DRO) (GC) SW846 EET MID 300.0 Anions, Ion Chromatography MCAWW EET MID 5035 Closed System Purge and Trap SW846 EET MID 8015NM Prep Microextraction SW846 EET MID 8015NM Prep Microextraction SW846 EET MID DI Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References: Laboratory References: Standard Operating Procedure	Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
300.0 Anions, Ion Chromatography MCAWW EET MID 5035 Closed System Purge and Trap SW846 EET MID 8015NM Prep Microextraction SW846 EET MID 8015NM Di Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035 Closed System Purge and Trap SW846 EET MID 8015NM Prep Microextraction SW846 EET MID DI Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015NM Prep Microextraction SW846 EET MID DI Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	300.0	Anions, Ion Chromatography	MCAWW	EET MID
DI Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Chemical Analysis Of Water, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	5035	Closed System Purge and Trap	SW846	EET MID
Protocol References: ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	8015NM Prep	Microextraction	SW846	EET MID
ASTM = ASTM International MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
	SW846 = "	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edi	•	
EET MID = Eurolins Midland, 1211 W. Florida Ave, Midland, 1X 79701, TEL (432)704-5440	,			
	EET MID -	- Euroins Midiand, 1211 W. Fionda Ave, Midiand, 1A 79701, 1EL (432)/04-3440		

Protocol References:

Laboratory References:

Sample Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 890-3555-1 SDG: 03E1558138

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3555-1	BH02A	Solid	11/22/22 11:15	11/22/22 15:00	2	4
						5
						8
						9
						12
						13

o: om Page of i	Work Order Comments	Brownfields RRC Superfund	[ADaPT	Preservative Codes	None: NO DI Water: H ₂ O	ol	HCL: HC HNO 3: HN H, SO 4: H 2 NAOH: NA		NaHSO 4: NABIS	Na 25 20 3: NaSO 3	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments	Incident #:	0APP1226346738	Cost Center:	1067621001			Sr TI Sn U V Zn	5.1/7470/7471		ture) Date/Time			Deviced Dree A015 (2010 Day 2020 2
Work Order No: . www.xenco.com	Work Orde	Program: UST/PST PRP	State of Project:	_evel	Deliverables: EDD	EST							of Custody	-								Vi K Se Ag SiO ₂	e Ag TI U Hg: 1631 / 245.1	is and conditions iond the control s previously negotiated.	tre) Received by: (Signature)			
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	Garrett Greene	XTO Energy	3104 E Greene St	Carlsbad, NM BB220	11 Qensolum. Com	ANALYSIS REQUEST					2	2	Report Section of Custody	H. Ə.	18	XXX	- me					AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K	Sh As Ba Be Cd Cr Co Cu Ph Mn Mo Ni Se Ag Tl U	s Xenco, its affiliates and subcontractors. It assigns standard term s incurred by the client if such losses are due to circumstances bey ofins Xenco, but not analyzed. These terms will be enforced unless	Date/Time Relinquished by: (Signature)	tosi ecter	7 4	<u>0</u>
Houston, TX (2 Midland, TX (432) EL Paso, TX (915 Hobbs, NM (575	Bill to: (if different)		Address:	City, State ZIP:	ait: biociill	Turn Around	e 🗌 Rush Code		TAT starts the day received by the lab, if received by 4:30pm	Res No	TTAN FOT	+	5,10		Depth Grab/ # of Comp Cont	, d							TCLP/SPLP 6010 : 8RCRA Sb	order from client company to Eurofin sponsibility for any tosses or expense i \$5 for each sample submitted to Eur	ure)	S- Lif 11	0	
fins Environment Testing Xenco	Ben Belill	-	3122 Nat'I Parks Hwy	bad, NM 882	989.854.0852 Email:	Penuda 100 CTB , Tu	03E1558138	32.27708, -103.942950ue Date:	MC red th bo borts TAT starts the lab. if for	Tomo Blank	The No Thermometer	Yes No WIA	A	Corrected Temperature:	ication Matrix Date Time	S						8RCR	Circle Method(s) and Metal(s) to be analyzed TCLP /	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 shell 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 885.00 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 negotisted.	(Signature) Received by: (Signature)	Br Avarda		
🐝 eurofins	Project Manager:	Company Name:		City, State ZIP:	Phone:	Project Name:	Project Number:		Sampler's Name:	SAMPI F RECFIPT	Samples Received Intact:	Cooler Custody Seals:	Sample Custody Seals:	Total Containers:	Sample Identification	RH02A						Total 200.7 / 6010	Circle Method(s) ar	Notice: Signature of this docun of service. Eurofins Xenco will of Eurofins Xenco. A minimum	Relinquished by: (Signature)	phear	3	5

12/2/2022

Page 90 of 219

4 5 6

12 13 14

Received by OCD: 12/14/2022 8:57:08 AM

Custody Seals Intact ∆ Yes ∆ No	Relinquished by	Kelinquished by	Relinquished by	Empty Kit Relinquished by	Deliverable Requested 1 II III IV Other (specify)	Possible Hazard Identification Unconfirmed	Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.						BH02A (890-3555-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name: Remuda 100 CTB	Email	Phone 432-704-5440(Tel)	State Zip TX 79701	City Midland	Address 1211 W Florida Ave	Company Eurofins Environment Testing South Centr	Client Contact: Shipping/Receiving	Client Information (Sub Contract Lab)	Eurorins Carisbad 1089 N Canal St. Carlsbad NM 88220 Phone: 575-988-3199 Fax 575-988-3199
	Date/Time	Date/Time	Date/Time [.]		Primary Deliverable Rank		iment Testing South Centr ad above for analysis/tests h Central LLC attention im						11/22/22	N	Sample Date	SSOW#:	Project #: 89000093	WO #-	PO#		TAT Requested (days):	Due Date Requested 11/30/2022		Phone [.]	Sampler	
				Date	able Rank		ral LLC place /matrix being nmediately I						11 15 Mountain	X	Sample Time						iys):	ă				Chain
					2		es the ownersh y analyzed the f all requested							Presen	Sample Type (C=comp, G=grab)	-										Chain of Custody Record
	Company	Company	Company				ip of method a samples must accreditations						Solid		Matrix (W=water S=solid, O=waste/oli, BT=Tissue, A=Air									Je	۲ a	stody
				Time.	S	<u>ه</u>	inalyte & a be shippe are curre					 		Same	Field Filtered Perform MS/			Sec. 3070-04	3)					E-Mail Jessica Kramer@et.eurofinsus	Lab PM Kramer Jessica	Reco
C _o	Rec	Reed	Receiv	," 	Special Instructions/QC Requirements	Sample Disposal (A	accredit ad back nt to da	-	 	\rightarrow		 	×		8015MOD_NM		Mar Solar	s staten Ma	D) Ful	TPH	<u>Girad</u>		Accreditations Required (See note) NELAP - Texas	ramer	essica	ord
Cooler Temperature(s)	Received by	Swed by		1	Instru	le Disposal (A f Return To Client	ation o to the te, retu						×		8015MOD_Cal	c							s Requi	@et.e	-	
ıperatu	Y	4	N.		uction	To C	omplia Eurofin m the s				 	 	×	- Sector	300_ORGFM_	28D/DI_I	EACH	Chlori	de				red (Se	urofin		
		•	A		s/QC		nce up s Envii signed		 	\rightarrow	 	 	×		8021B/5036FP		IOD) B	TEX				Ana	e note	ISUS C		
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Other R			\geq		lireme	be	subcon It Testir of Cust	-			 	 										Re				
and Other Remarks			2		ints	asses Dispo	tract la lg Sout ody atte															Requested		State New	Carrie	
			10	Metho		a <mark>ssessed if san</mark> Disposal By Lab	borator h Cent sting t					 										ted		State of Origin New Mexico	Carrier Tracking No(s)	ka. Tii :
				Method of Shipment:		fsan.	ies Th ral LL(p said o		 		 	 		-										8 =	cing No	
	Date/Time	Date/Tir	Date/Tir	lipmen		ples	lis sam C labor complie		 		 _	 		ada da		····									(s)	
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			ない			etain. Arch	pment r other o Euro	1			A			X	Total Numbe	r of coi	ntaine	s H _{ee} c	region con rece States and the	iy squaring Managaran	ratuli					<i>.</i>
			5 1134			fee may be assessed if samples are retained longer than 1 month) t Disposal By Lab Archive For Mon	is forwarded under (instructions will be p ins Environment Tea								Special Ir	Other:	L EDA		F MeOH G Amchlor H Ascorbic Acid	D Nitric Acid E NaHSO4		Preservation Codes	Job #: 890-3555-1	Page: Page 1 of 1	COC № 890-1042 1	💸 eurofins
1.000/00/1	Company	Company	Company			1 month) Months	chain-of-custody if the rovided Any changes to sting South Central LLC.								Special Instructions/Note		Y Trizma Z other (specify)	V MCAA W nH 4-5		P Na2O4S Q Na2SO3 R Na2S2O3	N None O - AsNaO2	- I				Environment Testing

12 13 14

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3555 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	

Job Number: 890-3555-1 SDG Number: 03E1558138

List Source: Eurofins Carlsbad

14

Eurofins Carlsbad Released to Imaging: 4/26/2023 10:00:33 AM

14

Job Number: 890-3555-1 SDG Number: 03E1558138

List Source: Eurofins Midland

List Creation: 11/23/22 11:47 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3555 List Number: 2 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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 12/14/2022 8:57:08 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/5/2022 1:33:05 PM

JOB DESCRIPTION

Remuda 100 CTB SDG NUMBER 03E1558138

JOB NUMBER

890-3556-1

JOB SDG NU

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Received by OCD: 12/14/2022 8:57:08 AM

1

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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

RAMER

Generated 12/5/2022 1:33:05 PM

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

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

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Duplicate Error Ratio (normalized absolute difference)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

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

Minimum Detectable Activity (Radiochemistry)

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

Dilution Factor

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent Positive / Present

Presumptive Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Limit of Quantitation (DoD/DOE)

DER

DL

DLC

EDL

LOD

LOQ

MCL

MDA

MDC

MDL

MPN

MQL

NC

ND

NEG

POS

PQL PRES

QC RER

RL

RPD

TEF

TEQ

TNTC

ML

Dil Fac

DL, RA, RE, IN

	Definitions/Glossary	
Client: Ensolu		Job ID: 890-3556-1
	Remuda 100 CTB	SDG: 03E1558138
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 VO	Α	
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
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	

Job ID: 890-3556-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: Remuda 100 CTB

Narrative

Job Narrative 890-3556-1

Receipt

The sample was received on 11/22/2022 3:00 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 5.4°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40514 and analytical batch 880-40408 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40514/2-A) and (LCSD 880-40514/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-21947-A-1-D). 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: BH02 (890-3556-1). 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 880-40514 and analytical batch 880-40408 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40514 and analytical batch 880-40408 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

Result Qualifier

Qualifier

<0.00199 U

<0.00199 U

<0.00199 U

<0.00398 U

<0.00199 U

<0.00398 U

118

103

Result Qualifier

U

Result Qualifier

%Recovery

<0.00398

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

Limits

70 - 130

70 - 130

RL

RL

0.00398

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

Unit

mg/Kg

D

D

D

Prepared

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

Prepared

11/29/22 16:02

11/29/22 16:02

Prepared

Prepared

Job ID: 890-3556-1 SDG: 03E1558138

Client Sample ID: BH02

Project/Site: Remuda 100 CTB

Date Collected: 11/22/22 11:20 Date Received: 11/22/22 15:00

Sample Depth: 1

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: Ensolum

SDG: 03E155

Lab Sample ID: 890-3556-1

Analyzed

12/02/22 18:05

12/02/22 18:05

12/02/22 18:05

12/02/22 18:05

12/02/22 18:05

12/02/22 18:05

Analyzed

12/02/22 18:05

12/02/22 18:05

Analyzed

12/05/22 14:17

Analyzed

Matrix: Solid

50150	
556-1 Solid	3
50110	
	4
	5
Dil Fac	
1	6
1	
1	7
1	
1	8
1	
Dil Fac	9
1 1	10
Dil Fac	11
1	12
Dil Fac	13
1	14

Total TPH	<50.0	U	50.0	mg/Kg			11/29/22 12:08	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 06:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 06:08	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 06:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	173	S1+	70 - 130			11/28/22 16:34	11/29/22 06:08	1
o-Terphenyl	158	S1+	70 - 130			11/28/22 16:34	11/29/22 06:08	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6150		50.5	mg/Kg			11/29/22 13:07	10

12/5/2022

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Γ				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-3549-A-1-C MS	Matrix Spike	114	102		
890-3549-A-1-D MSD	Matrix Spike Duplicate	104	101		6
890-3556-1	BH02	118	103		
LCS 880-40625/1-A	Lab Control Sample	105	100		
LCSD 880-40625/2-A	Lab Control Sample Dup	104	97		
MB 880-40625/5-A	Method Blank	68 S1-	94		8
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				9

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
mple ID	Client Sample ID	(70-130)	(70-130)	
A-1-E MS	Matrix Spike	120	106	
'-A-1-F MSD	Matrix Spike Duplicate	100	104	
·1	BH02	173 S1+	158 S1+	
10514/2-A	Lab Control Sample	135 S1+	139 S1+	
)-40514/3-A	Lab Control Sample Dup	190 S1+	187 S1+	
0-40514/1-A	Method Blank	136 S1+	150 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Project/Site: Remuda 100 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40625/5-A

Matrix: Solid Analysis Batch: 40842

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130			11/29/22 16:02	12/02/22 11:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130			11/29/22 16:02	12/02/22 11:45	1

Lab Sample ID: LCS 880-40625/1-A Matrix: Solid

Analysis Batch: 40842

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1252		mg/Kg		125	70 - 130	
Toluene	0.100	0.1206		mg/Kg		121	70 - 130	
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2198		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-40625/2-A

Matrix: Solid

	Analysis Batch: 40842							Prep	Batch:	40625
		Spike	LCSD	LCSD				%Rec		RPD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
i	Benzene	0.100	0.1186		mg/Kg		119	70 - 130	5	35
-	Toluene	0.100	0.1151		mg/Kg		115	70 - 130	5	35
1	Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130	5	35
1	m-Xylene & p-Xylene	0.200	0.2094		mg/Kg		105	70 - 130	5	35
	o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	0	35

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

Lab Sample ID: 890-3549-A-1-C MS

Matrix: Solid

Analysis Batch: 40842									Pre	p Batch: 4062	25
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00201	U	0.0996	0.1021		mg/Kg		103	70 - 130		
Toluene	<0.00201	U	0.0996	0.1062		mg/Kg		107	70 - 130		

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 40625

Client: Ensolum Project/Site: Remuda 100 CTB

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

Lab Sample ID: 890-3549-A	-1-C MS							Client	Sample ID		
Matrix: Solid										Type: To	
Analysis Batch: 40842	0	0	0		MS					Batch:	4062
• • •	•	Sample	Spike				_	a/ 5	%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00201		0.0996	0.1009		mg/Kg		101	70 - 130		
m-Xylene & p-Xylene	<0.00402		0.199	0.2022		mg/Kg		101	70 - 130		
o-Xylene	<0.00201	U	0.0996	0.1035		mg/Kg		104	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	102		70 _ 130								
Analysis Batch: 40842	Sample	Sample	Spike	MSD	MSD				%Rec	Batch:	RP
								%Rec	Limits	RPD	Lim
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	/onec	Linnis	RFD	
Analyte Benzene	Result <0.00201		Added	Result 0.09136	Qualifier	mg/Kg			70 - 130	 	3
Benzene		U			Qualifier						
	<0.00201	U U U	0.0990	0.09136	Qualifier	mg/Kg		92	70 - 130	11	3 3 3
Benzene Toluene	<0.00201 <0.00201	U U U	0.0990	0.09136 0.09165	Qualifier	mg/Kg mg/Kg	<u>D</u>	92 93	70 - 130 70 - 130	11 15	3
Benzene Toluene Ethylbenzene	<0.00201 <0.00201 <0.00201	U U U U	0.0990 0.0990 0.0990	0.09136 0.09165 0.08677	Qualifier	mg/Kg mg/Kg mg/Kg	<u>D</u>	92 93 88	70 - 130 70 - 130 70 - 130	11 15 15	3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	<0.00201 <0.00201 <0.00201 <0.00402 <0.00201	U U U U	0.0990 0.0990 0.0990 0.198	0.09136 0.09165 0.08677 0.1732	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	92 93 88 87	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	11 15 15 15	3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	<0.00201 <0.00201 <0.00201 <0.00402 <0.00201	U U U U U MSD	0.0990 0.0990 0.0990 0.198	0.09136 0.09165 0.08677 0.1732	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	92 93 88 87	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	11 15 15 15	3 3 3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	<0.00201 <0.00201 <0.00201 <0.00402 <0.00201 <i>MSD</i>	U U U U U MSD	0.0990 0.0990 0.0990 0.198 0.0990	0.09136 0.09165 0.08677 0.1732	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		92 93 88 87	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	11 15 15 15	3

Lab Sample ID: MB 880-40514/1-A
Matrix: Solid
Analysis Batch: 40408

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 06:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 06:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/28/22 16:34	11/29/22 06:30	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			11/28/22 16:34	11/29/22 06:30	1

1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	150	S1+	70 - 130

Lab Sample ID: LCS 880-40514/2-A Matrix: Solid

Analysis Batch: 40408							Prep B	atch: 40514
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1074		mg/Kg		107	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	995.7		mg/Kg		100	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Client Sample ID: Method Blank

11/29/22 06:30

Client Sample ID: Lab Control Sample

11/28/22 16:34

Prep Type: Total/NA Prep Batch: 40514

1

Client: Ensolum Project/Site: Remuda 100 CTB

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

Lab Sample ID: LCS 880-405	14/2-A						Client	: Sample	e ID: Lab Co		
Matrix: Solid										Type: Tot	
Analysis Batch: 40408									Prep	Batch:	40514
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	135	S1+	70 - 130								
o-Terphenyl	139	S1+	70 - 130								
						0					
Lab Sample ID: LCSD 880-40	/514/3-A					Clien	it Sam	iple iD: i	Lab Contro		
Matrix: Solid										Type: Tot	
Analysis Batch: 40408			Cniko	1000	LCSD				Prep %Rec	Batch:	40514 RPD
Analyte			Spike Added		Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics		· ·	1000 Added	903.6	Quanner	mg/Kg		90	70 - 130	17 -	20
(GRO)-C6-C10			1000	300.0		IIIy/rxy		30	10 - 100	.,	20
Diesel Range Organics (Over			1000	990.3		mg/Kg		99	70 - 130	1	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	187	S1+	70 - 130								
-											
Lab Sample ID: 880-21947-A	-1-E MS							Client	t Sample ID:		
Matrix: Solid										Type: Tot	
Analysis Batch: 40408										Batch:	40514
	•	Sample	Spike		MS	,	_	~ -	%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	999	1202		mg/Kg		117	70 - 130		
Diesel Range Organics (Over	<50.0	U F1	999	1382	F1	mg/Kg		138	70 - 130		
C10-C28)		-							-		
	MS	MS									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	106		70 - 130								
-											
Lab Sample ID: 880-21947-A	-1-F MSD					Cli	ient Sa	ample IC	D: Matrix Sp	pike Dur	Jicate
Matrix: Solid									Prep T	Type: Tot	tal/NA
Analysis Batch: 40408									Prep	Batch:	40514
Analysis Datch. 40400	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analysis Batch. 40400		· ···	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Analyte	Result										
Analyte Gasoline Range Organics	Result <50.0		997	926.9	F2	mg/Kg		90	70 - 130	26	20
Analyte		U F2			F2	mg/Kg		90 127	70 ₋ 130	26 9	20 20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 _ 130
o-Terphenyl	104		70 - 130

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Job ID: 890-3556-1 SDG: 03E1558138 Project/Site: Remuda 100 CTB

Client: Ensolum

QC Sample Results

Job ID: 890-3556-1 SDG: 03E1558138

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40386/1-A Matrix: Solid									Client S	ample ID:	Method Type: S	
Analysis Batch: 40550										Fleb	Type. S	oluble
Analysis Batch: 40300		МВ МВ										
Analyte		sult Qualifier		RL	Uni	+	D	D	repared	Analy	zod	Dil Fac
Chloride	-	5.00 U		5.00	mg		<u> </u>		repareu	11/29/22		1
				0.00							00.10	
Lab Sample ID: LCS 880-40386/2-A							Cli	ient	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 40550												
			Spike	LC	LCS					%Rec		
Analyte			Added	Resu	t Qualifier	Unit		D	%Rec	Limits		
Chloride			250	241.	1	mg/Kg		_	97	90 - 110		
Lab Sample ID: LCSD 880-40386/3-	Α					CI	ient s	sam	ipie iD: i	Lab Contro		
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 40550			Spike		LCSD					%Rec		RPD
Analyta			Added			Unit		D	%Rec	Limits	RPD	
Analyte Chloride			250	242.	t Qualifier	mg/Kg		_	97	90 - 110	0	2
Glionde			250	242.)	iiig/Kg			97	90 - 110	0	20
Lab Sample ID: 890-3551-A-4-A MS									Client	Sample ID): Matrix	Spike
Matrix: Solid											Type: S	
Analysis Batch: 40550												
	Sample	Sample	Spike	M	6 MS					%Rec		
Analyte	Result	Qualifier	Added	Resu	t Qualifier	Unit		D	%Rec	Limits		
Chloride	48.9		249	299.	9	mg/Kg		_	101	90 - 110		
Lab Sample ID: 890-3551-A-4-A MS	D						Clien	t Sa	ample IC): Matrix S		
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 40550	• "									
	Sample	•	Spike		MSD			_	a/ 5	%Rec	RPD	RPC Limi
Analyte Chloride	Result 48.9	Qualifier	Added 249	300.	t Qualifier	Unit mg/Kg		<u>D</u>	%Rec 101	Limits 90 - 110	0	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum Project/Site: Remuda 100 CTB

Job ID: 890-3556-1 SDG: 03E1558138

GC VOA

Prep Batch: 40625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3556-1	BH02	Total/NA	Solid	5035	
MB 880-40625/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40625/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40625/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3549-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3549-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
Analysis Batch: 40842					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3556-1	BH02	Total/NA	Solid	8021B	40625
MB 880-40625/5-A	Method Blank	Total/NA	Solid	8021B	40625
LCS 880-40625/1-A	Lab Control Sample	Total/NA	Solid	8021B	40625
LCSD 880-40625/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40625
890-3549-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	40625
890-3549-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40625
Analysis Batch: 41052					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3556-1	BH02	Total/NA	Solid	Total BTEX	-
GC Semi VOA					

Analysis Batch: 40408

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3556-1	BH02	Total/NA	Solid	8015B NM	40514
MB 880-40514/1-A	Method Blank	Total/NA	Solid	8015B NM	40514
LCS 880-40514/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40514
LCSD 880-40514/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40514
880-21947-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	40514
880-21947-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40514

Prep Batch: 40514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3556-1	BH02	Total/NA	Solid	8015NM Prep	
MB 880-40514/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40514/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40514/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21947-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-21947-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
nalysis Batch: 40609					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

Solid

8015 NM

890-3556-1 HPLC/IC

Leach Batch: 40386

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3556-1	BH02	Soluble	Solid	DI Leach	
MB 880-40386/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40386/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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BH02

5

8

40386

40386

40386

40386

40386

HPLC/IC (Continued)

MB 880-40386/1-A

LCS 880-40386/2-A

LCSD 880-40386/3-A

890-3551-A-4-A MS

890-3551-A-4-A MSD

Leach Batch: 40386 (Continued)

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3551-A-4-A MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3551-A-4-A MSD Analysis Batch: 40550	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3556-1	BH02	Soluble	Solid	300.0	40386

Soluble

Soluble

Soluble

Soluble

Soluble

Solid

Solid

Solid

Solid

Solid

300.0

300.0

300.0

300.0

300.0

Eurofins	Carlsbad
Laronno	ounobuu

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Job ID: 890-3556-1 SDG: 03E1558138

Lab Sample ID: 890-3556-1 Matrix: Solid

Client Sample ID: BH02 Date Collected: 11/22/22 11:20 Date Received: 11/22/22 15:00

Project/Site: Remuda 100 CTB

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40625	11/29/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40842	12/02/22 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41052	12/05/22 14:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40609	11/29/22 12:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	40514	11/28/22 16:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40408	11/29/22 06:08	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40386	11/28/22 08:56	СН	EET MID
Soluble	Analysis	300.0		10			40550	11/29/22 13:07	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 4/26/2023 10:00:33 AM

Laboratory: Eurofins Midland

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

thority	F	Program	Identification Number	Expiration Date
kas	Ν	NELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, b	but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for w
the agency does not o		Matrix	Analyte	
Analysis Method	fer certification . Prep Method	Matrix	Analyte	
6 ,		Matrix Solid	Analyte Total TPH	

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Job ID: 890-3556-1

SDG: 03E1558138

Eurofins Carlsbad
Method Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 890-3556-1 SDG: 03E1558138

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
SW846 = '	= "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, Mi "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	•	
Laboratory Re	eferences: = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440)	

Protocol References:

Laboratory References:

Sample Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 890-3556-1 SDG: 03E1558138

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3556-1	BH02	Solid	11/22/22 11:20	11/22/22 15:00	1	4
						5
						8
						9
						12
						13

Page of	nents	elds RC Superfund		PST/UST TRRP Level IV	Other:	Preservative Codes	None: NO DI Water: H ₂ O	Cool: Cool MeOH: Me		H2504:H2 NAUH:NA	H3PO 4: HP	Nars, Os: NaSO	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments		Incident#	APP22226546158		1001091.901			TI Sn U V Zn /7470 /7471		Date/Time			C OCOC 1140 OCOC/35/30 1140 Designed
Work Order No:	Work Order Comments	Program: UST/PST PRP Brownfields	roject:	Reporting: Level II 🗌 Level III 🗍 PST/	Deliverables: EDD ADaPT			<u>o</u>						Na N									K Se Ag SiO ₂ Na Sr Hg: 1631 / 245.1	rd conditions 1 file control eviously regotiated.	Received by: (Signature)			
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	Barrit Given	9	E Greene St	ord, NM 8220		ANALYSIS REQUEST							890-3556 Chain of Custouy	K3	18 18 mil								Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni v Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	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 services. Eurofins Xenco. A mill be appled to each project and a charge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously regotisted.	Date/Time Relinquished by: (Signature)	POSI COL	4	٩
Houston, TX (2 Midland, TX (432 EL Paso, TX (91) Hobbs, NM (57)	Bill to: (if different)		Address:	City, State ZIP:		Turn Around	Rush Code		TAT starts the day received by	Indoc.*	-	Ha.	22	5.4	5rab/	Ŭ	1, 2 -						8RCRA 13PPM Texas 11 AI Sb TCLP / SPLP 6010 : 8RCRA Sb	rder from client company to Eurofi consibility for any losses or expense 5 for each sample submitted to Eur	re)	stat wa	1	
fins Environment Testing Xenco	Rev Rollin		2122 A lat' Dare Hand	UM 802	989.854.0853 Email:	Remarks for CE		32.27708.70394295 Due Date:	Mcredith Roberts TAT starts th	(Temp Blank:	Kes No	Yes No N/A Temperature Reading:		Matrix		2 S N122/22 1120						200.8 / 6020: 8RCR d Metal(s) to be analyzed	iment and relinquishment of samples constitutes a valid purchase of II be liable only for the cost of samples and shall not assume any resp in change of 585,00 will be applied to each protect and a charge of resp	(Signature) Received by: (Signature)	R Avarlag		
🛟 eurofins	Devicet Manager.		Company Name:	City, State ZIP:	Phone:	Designed Manual	ber:	Project Location:	Sampler's Name:	PO #:	SAMPLE RECEIPT	Samples Received Intact:	Cooler Lustody Seals: Sample Custody Seals:	Total Containers:	Cample Identification		BHO						Total 200.7 / 6010 Circle Method(s) ar	Notice: Signature of this docu of service. Eurofins Xenco wil of Eurofins Xenco. A minimur	Pedinguished by: (Signature)	provid	3	S

Released to Imaging: 4/26/2023 10:00:33 AM

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1089 N Canal St. Cadebad NM 88220	0	Chain of Custody Record	of Cus	tody F	lecoro					- 36								eur	💸 eurofins	ns					
Phone 575-988-3199 Fax 575-988-3199										E.	k	87									ŗ	Environment lesting	nmei	71 16	sting
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer	mer Jessica	δi Δ					Carrier Tracking No(s)	Frackir	Ig No(:	Ĩ			80 C 00 C	COC Nº 890-1042 1	12 1						
	Phone:			E-Mail Jessi	E-Mail Jessica Kramer@et.eurofinsus cor	r@et.eu	Irofins	us cor	з		State of Origin New Mexico	Origin					Page. Page	Page. Page 1 of 1	<u>2</u>						
Company Eurofins Environment Testing South Centr					Accreditations Required (See note) NELAP - Texas	ns Requin Texas	ed (See	note) [.]		ļ							-068 # qor	Job # 890-3556-1	5						
Address 1211 W Florida Ave	Due Date Requested 11/30/2022	ă						Analy	sis	Reg	Requested	ă١					Pa	Serv	Preservation Codes	Cod	: 8				
City Midland	TAT Requested (days)	iys).										²				787		NaOH			oz∎	None	ମ କ		
State, Zip TX, 79701					трн									·		Mare	mυC	Zn Aceta Nitric Acia NaHSO4	Zn Acetate Nitric Acid NaHSO4		σq	P Na2O4S Q Na2SO3	3 \$		
Phone 432-704-5440(Tel)	PO #					·	e 						•					MeOH Amchlor	학		Ϥϣϫ	H2SC	203 14	shudi	a fa
Email	WO #·				o) //											¥		H ASCOIDIC I Ice J - DI Water	Ascorbic Acid ce DI Water		< <	Aceto MCA/	ne		
Project Name Remuda 100 CTB	Project #. 89000093				s or M								•••••			ainers	г х	EDTA EDA	2		v ≺ ≤	Trizm	. w .		
Site	SSOW#				D (Ye											cont	Other.	ler.				ourer (speciry)	(apec	"Y)	
					SMSC	aic										er of	T							1	
	- -	Sample	Sample Type (C=comp,	Matrix (W=water S=solid, O=waste/oil,	eld Filtere erform MS 15MOD_NI	15MOD_Ca	0_ORGFM_ 21B/5035F	tai_BTEX_						·····		tal Numb	n na sta kalkana di Alika di								
		X	Preserva	Preservation Code:	XP	8	Here -	<u></u>					<u>199</u>	1000/		XT		0	Special Instructions/Note	al In	stru		INS/N	€	in the second second
BH02 (890-3556-1)	11/22/22	11 20 Mountain		Solid	×	×	× ×	×								- -	-adamenti S			for the association	1. J. J. C.	1	2. 2. 200	A STATE OF STATE	
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Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC.	nt Testing South Centra bove for analysis/tests/ entral, LLC attention im	al, LLC places t matrix being ar mediately If al	the ownership nalyzed, the sa Il requested ac	of method, and amples must be ccreditations ar	lyte & accred shipped bac current to d	litation co k to the E ate returr	mplianc urofins 1 the sig	e upon Environ Ined Ch	out sub iment T iain of (esting Custod	ct labo South (attest	atorie Centra	aid oc	: samp abora mplica	le shi lory or	pmen - othe	r inst ofins	orwarc ructior Envirc	ted un 1s will hnmen	ider ch be pru it Test	nain-c bvide	if-cust d An	ody y chai }entra	If the nges	9 S
Possible Hazard Identification Unconfirmed					Samp	Sample Disposal (A fee	osal (A fee	may be assessed if samples are retained longer	beas	sess	ed if	samp	les a		tai	ed	long	er th	than 1	1 month)	nth)			
Deliverable Requested 1 II III IV Other (specify)	Primary Deliverable Rank	able Rank 2			Specia	Special Instructions/QC Requirements	ctions/	QC R	equire	ment	ints	j.	2					9				NUTIO	10		
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Custody Seals Intact Custody Seal No ∆ Yes ∆ No					Co	Cooler Temperature(s) °C and Other Remarks.	erature	(s) °C a	and Oth	er Ren	larks.		ŀ								F				
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12/5/2022

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Eurofins Carlsbad

12 13 14

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3556 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	

14

Job Number: 890-3556-1 SDG Number: 03E1558138

List Source: Eurofins Carlsbad

14

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 3556 List Number: 2 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	N/A	

Job Number: 890-3556-1 SDG Number: 03E1558138

List Source: Eurofins Midland

List Creation: 11/23/22 11:47 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/5/2022 1:33:17 PM

JOB DESCRIPTION

Remuda 100 CTB SDG NUMBER 03E1558138

JOB NUMBER

890-3557-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Received by OCD: 12/14/2022 8:57:08 AM

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

RAMER

Generated 12/5/2022 1:33:17 PM

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

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

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Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
-	20

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	Definitions/Glossary		
Client: Ensolum		Job ID: 890-3557-1	
	emuda 100 CTB	SDG: 03E1558138	
Qualifiers		/	3
GC VOA			
Qualifier	Qualifier Description	7	
S1-	Surrogate recovery exceeds control limits, low biased.		
U	Indicates the analyte was analyzed for but not detected.		5
GC Semi VOA			
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC		-	
Qualifier	Qualifier Description		8
U	Indicates the analyte was analyzed for but not detected.		
Glossary			3
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)	1	4
Dil Fac	Dilution Factor	1	L
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		
DED	Polotivo Error Patio (Padiochomistry)		

 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

4

5

Job ID: 890-3557-1 SDG: 03E1558138

Job ID: 890-3557-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: Remuda 100 CTB

Narrative

Job Narrative 890-3557-1

Receipt

The sample was received on 11/22/2022 3:00 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 5.4° C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-40686/5), (LCS 880-40653/2-A) and (LCSD 880-40653/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-3559-A-23-F). 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: BH01 (890-3557-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40653 and analytical batch 880-40686 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.

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

Result Qualifier

Qualifier

<0.00199 U

<0.00199 U

<0.00199 U

<0.00398 U

<0.00199 U

<0.00398 U

119

88

Result Qualifier

U

%Recovery

< 0.00398

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

Limits

70 - 130

70 - 130

RL

0.00398

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

Prepared

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

Prepared

11/29/22 16:02

11/29/22 16:02

Prepared

Dil Fac

1

1

1

1

Job ID: 890-3557-1 SDG: 03E1558138

Client Sample ID: BH01

Project/Site: Remuda 100 CTB

Date Collected: 11/22/22 12:05 Date Received: 11/22/22 15:00

Sample Depth: 1

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: Ensolum

Analyzed

12/02/22 18:31

12/02/22 18:31

12/02/22 18:31

12/02/22 18:31

12/02/22 18:31

12/02/22 18:31

Analyzed

12/02/22 18:31

12/02/22 18:31

Analyzed

12/05/22 14:17

Lab Sample ID: 890-3557-1 Matrix: Solid

5

Dil Fac	9
1 1	
Dil Fac	
1	
Dil Fac	13

Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.0		50.0	mg/Kg			12/01/22 12:06	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	<50.0	U	50.0	mg/Kg		11/30/22 08:30	12/01/22 00:42	1
(GRO)-C6-C10								
Diesel Range Organics (Over C10-C28)	60.0		50.0	mg/Kg		11/30/22 08:30	12/01/22 00:42	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/30/22 08:30	12/01/22 00:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			11/30/22 08:30	12/01/22 00:42	1
o-Terphenyl	141	S1+	70 - 130			11/30/22 08:30	12/01/22 00:42	1
_ Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - S	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2420		24.9	mg/Kg			11/29/22 13:15	5

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Job ID: 890-3557-1 SDG: 03E1558138

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-3549-A-1-C MS	Matrix Spike	114	102		
890-3549-A-1-D MSD	Matrix Spike Duplicate	104	101		6
890-3557-1	BH01	119	88		
LCS 880-40625/1-A	Lab Control Sample	105	100		
LCSD 880-40625/2-A	Lab Control Sample Dup	104	97		
MB 880-40625/5-A	Method Blank	68 S1-	94		8
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				- 9

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
57-1	BH01	117	141 S1+	
59-A-23-G MS	Matrix Spike	121	123	
559-A-23-H MSD	Matrix Spike Duplicate	124	126	
-40653/2-A	Lab Control Sample	183 S1+	217 S1+	
80-40653/3-A	Lab Control Sample Dup	170 S1+	200 S1+	
380-40653/1-A	Method Blank	116	145 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Project/Site: Remuda 100 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40625/5-A

Matrix: Solid Analysis Batch: 40842

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130			11/29/22 16:02	12/02/22 11:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130			11/29/22 16:02	12/02/22 11:45	1

Lab Sample ID: LCS 880-40625/1-A Matrix: Solid

Analysis Batch: 40842

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1252		mg/Kg		125	70 - 130	
Toluene	0.100	0.1206		mg/Kg		121	70 - 130	
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2198		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-40625/2-A

Matrix: Solid

Analysis Batch: 40842							Prep	Batch:	40625
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1186		mg/Kg		119	70 - 130	5	35
Toluene	0.100	0.1151		mg/Kg		115	70 - 130	5	35
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2094		mg/Kg		105	70 - 130	5	35
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	0	35

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

Lab Sample ID: 890-3549-A-1-C MS

Matrix: Solid

Analysis Batch: 40842									Prep	Batch: 40625
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.1021		mg/Kg		103	70 - 130	
Toluene	<0.00201	U	0.0996	0.1062		mg/Kg		107	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

3

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Job ID: 890-3557-1 SDG: 03E1558138

Prep Batch: 40625

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 40625

Client: Ensolum Project/Site: Remuda 100 CTB

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

Lab Sample ID: 890-3549-A Matrix: Solid	-1-C MS							Client	Sample ID Prep 1	: Matrix Type: To	
Analysis Batch: 40842										Batch:	
· ·····, · · · · · · · · · · · · · · ·	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00201	U	0.0996	0.1009		mg/Kg		101	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2022		mg/Kg		101	70 - 130		
o-Xylene	<0.00201	U	0.0996	0.1035		mg/Kg		104	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								
•	-1-D MSD					CI	ient Sa	ample ID): Matrix Sp Prep 1		
Lab Sample ID: 890-3549-A Matrix: Solid Analysis Batch: 40842	-1-D MSD					CI	ient Sa	ample ID	Prep 1	Type: To	tal/NA
•		Sample	Spike	MSD	MSD	CI	ient Sa	ample ID	Prep 1		tal/NA
Matrix: Solid	Sample	Sample Qualifier	Spike Added		MSD Qualifier	CI	ient Sa D	mple ID %Rec	Prep 1 Prep	Type: To	tal/NA 40625 RPD
Matrix: Solid Analysis Batch: 40842 Analyte	Sample	Qualifier	•						Prep 1 Prep %Rec	ype: To Batch:	tal/NA 40625 RPD
Matrix: Solid Analysis Batch: 40842 Analyte Benzene	Sample 	Qualifier	Added	Result		Unit		%Rec	Prep 1 Prep %Rec Limits	Batch:	tal/NA 40625 RPD Limit
Matrix: Solid Analysis Batch: 40842 Analyte Benzene Toluene	Sample 	Qualifier U U	Added	Result 0.09136		_ <mark>Unit</mark> mg/Kg		%Rec 92	Prep 1 Prep %Rec Limits 70 - 130	Sype: To Batch: RPD 11	tal/NA 40625 RPD Limit 35
Matrix: Solid Analysis Batch: 40842 Analyte Benzene Toluene Ethylbenzene	Sample Result <0.00201 <0.00201	Qualifier U U U	Added	Result 0.09136 0.09165	Qualifier	_ <mark>Unit</mark> mg/Kg mg/Kg		%Rec 92 93	Prep 7 Prep %Rec Limits 70 - 130 70 - 130	Type: To Batch: RPD 11 15	tal/NA 40625 RPD Limit 35 35
Matrix: Solid Analysis Batch: 40842 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00201 <0.00201 <0.00201	Qualifier U U U U	Added 0.0990 0.0990 0.0990	Result 0.09136 0.09165 0.08677	Qualifier	_ <mark>Unit</mark> mg/Kg mg/Kg mg/Kg		%Rec 92 93 88	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 70 - 130	RPD 11 15	tal/NA 40625 RPD Limit 35 35 35
Matrix: Solid Analysis Batch: 40842 Analyte Benzene Toluene	Sample Result <0.00201 <0.00201 <0.00201 <0.00402 <0.00201	Qualifier U U U U	Added 0.0990 0.0990 0.0990 0.198	Result 0.09136 0.09165 0.08677 0.1732	Qualifier	Unit mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 92 93 88 87	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To Batch: <u>RPD</u> 11 15 15	tal/NA 40625 RPD Limit 35 35 35 35
Matrix: Solid Analysis Batch: 40842 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00201 <0.00201 <0.00201 <0.00402 <0.00201	Qualifier U U U U U MSD	Added 0.0990 0.0990 0.0990 0.198	Result 0.09136 0.09165 0.08677 0.1732	Qualifier	Unit mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 92 93 88 87	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To Batch: <u>RPD</u> 11 15 15	tal/NA 40625 RPD Limit 35 35 35 35
Matrix: Solid Analysis Batch: 40842 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Sample Result <0.00201 <0.00201 <0.00201 <0.00402 <0.00201 <i>MSD</i>	Qualifier U U U U U MSD	Added 0.0990 0.0990 0.0990 0.198 0.0990	Result 0.09136 0.09165 0.08677 0.1732	Qualifier	Unit mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 92 93 88 87	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To Batch: <u>RPD</u> 11 15 15	tal/NA 40625 RPD Limit 35 35 35 35

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

Lab Sample ID: MB 880-40653/1-A Matrix: Solid						Client Sa	mple ID: Metho Prep Type: 1	
Analysis Batch: 40686							Prep Batch	n: 40653
-	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/30/22 08:30	11/30/22 14:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/30/22 08:30	11/30/22 14:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/30/22 08:30	11/30/22 14:25	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			11/30/22 08:30	11/30/22 14:25	1
o-Terphenyl	145	S1+	70 - 130			11/30/22 08:30	11/30/22 14:25	1
- Lab Sample ID: LCS 880-40653/2-A					c	lient Sample I	D: Lab Control	Sample
Matrix: Solid							Prep Type: 1	Fotal/NA

Analysis Batch: 40686 Prep Batch: 40653 %Rec Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits D 1000 994.8 99 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1096 mg/Kg 110 70 - 130 C10-C28)

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Released to Imaging: 4/26/2023 10:00:33 AM

Client: Ensolum Project/Site: Remuda 100 CTB

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

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

MSD MSD

%Recovery Qualifier

124

126

Method. 0013B NM - Dies	ser Range Of	iganics (L		Jonunue	<i>.</i> u)							
Lab Sample ID: LCS 880-400	653/2-A						Client	t Sample	ID: Lab Co			
Matrix: Solid										Туре: То		
Analysis Batch: 40686									Prep	Batch:	40653	
	LCS	LCS										5
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane		S1+	70 - 130									
o-Terphenyl	217	S1+	70 - 130									
												7
Lab Sample ID: LCSD 880-4	0653/3-A					Clier	nt Sam	ple ID:	Lab Contro	I Sampl	e Dup	_
Matrix: Solid										ype: To		8
Analysis Batch: 40686										Batch:		
-			Spike	LCSD	LCSD				%Rec		RPD	0
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	3
Gasoline Range Organics			1000	834.2		mg/Kg		83	70 - 130	18	20	
(GRO)-C6-C10												
Diesel Range Organics (Over			1000	993.6		mg/Kg		99	70 - 130	10	20	
C10-C28)												
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	170	S1+	70 - 130									
o-Terphenyl	200	S1+	70 - 130									13
Lab Sample ID: 890-3559-A-	23. G MS							Client	Sample ID	• Matrix	Spiko	
Matrix: Solid	23-0 103							Client		ype: To	-	
Analysis Batch: 40686										Batch:		
Analysis Datch. 40000	Sample	Sample	Spike	MS	MS				%Rec	Daten.	40000	
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics	<49.9		999	1262	quamer	mg/Kg		122	70 - 130			
(GRO)-C6-C10	10.0	0	000	1202		mg/rtg		122	10-100			
Diesel Range Organics (Over	<49.9	U	999	1256		mg/Kg		122	70 - 130			
C10-C28)												
	MS	MS										
Surrogate	%Recovery		Limits									
1-Chlorooctane			70 - 130									
o-Terphenyl	123		70 - 130									
Lab Sample ID: 890-3559-A-	23-H MSD					CI	ient Sa	ample IC	: Matrix Sp	oike Dup	olicate	
Matrix: Solid										Гуре: То		
Analysis Batch: 40686										Batch:		
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	997	1183		mg/Kg		114	70 - 130	6	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	997	1325		mg/Kg		129	70 - 130	5	20	

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Limits

70 - 130

70 - 130

Project/Site: Remuda 100 CTB

Client: Ensolum

QC Sample Results

Job ID: 890-3557-1 SDG: 03E1558138

Method: 300.0 - Anions, Ion Chromatography

_ Lab Sample ID: MB 880-40386/1-A								Client	Comple ID: N	lathad	Plank
Matrix: Solid								Client	Sample ID: N	liethou Type: S	
Analysis Batch: 40550									Fieb	iype. S	oluble
Analysis Daten. 40000		МВ МВ									
Analyte	R	esult Qualifier		RL	Unit		D	Prepared	Analyze	ed	Dil Fac
Chloride		5.00 U		5.00	mg/ł				11/29/22 0		1
- Lab Sample ID: LCS 880-40386/2-/	4						Clier	nt Sample	ID: Lab Co	ntrol S	ample
Matrix: Solid										Гуре: S	
Analysis Batch: 40550											
			Spike	LCS	LCS				%Rec		
Analyte			Added	Resul	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	241.4		mg/Kg		97	90 - 110		
Lab Sample ID: LCSD 880-40386/3	-A					CI	ient Sa	mple ID:	Lab Control	Sampl	le Dup
Matrix: Solid									Prep 1	Гуре: S	oluble
Analysis Batch: 40550											
			Spike	LCSE	LCSD				%Rec		RPD
Analyte			Added	Resul	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	242.0)	mg/Kg		97	90 - 110	0	20
Lab Sample ID: 890-3551-A-4-A MS	5							Client	Sample ID:	Matrix	Spike
Matrix: Solid									Prep 1	Гуре: S	oluble
Analysis Batch: 40550											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Chloride	48.9		249	299.9		mg/Kg		101	90 _ 110		
Lab Sample ID: 890-3551-A-4-A MS	SD						Client S	Sample II	D: Matrix Sp	ike Dup	olicate
Matrix: Solid									Prep 1	Гуре: S	oluble
Analysis Batch: 40550											
	Sample	Sample	Spike	MSE	MSD				%Rec		RPD
		aa			0	11		%Rec		RPD	Limit
Analyte	Result	Qualifier	Added	Resul	Qualifier	Unit	D	%Rec	Limits	RPD	

QC Association Summary

Client: Ensolum Project/Site: Remuda 100 CTB Page 126 of 219

Prep Batch: 40625

GC VOA

.ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3557-1	BH01	Total/NA	Solid	5035	
MB 880-40625/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40625/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-40625/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3549-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3549-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 40842					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3557-1	BH01	Total/NA	Solid	8021B	40625
MB 880-40625/5-A	Method Blank	Total/NA	Solid	8021B	40625
LCS 880-40625/1-A	Lab Control Sample	Total/NA	Solid	8021B	40625
LCSD 880-40625/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40625
390-3549-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	40625
890-3549-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40625
nalysis Batch: 41053					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3557-1	BH01	Total/NA	Solid	Total BTEX	
C Semi VOA					

Prep Batch: 40653

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3557-1	BH01	Total/NA	Solid	8015NM Prep	
MB 880-40653/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40653/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40653/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3559-A-23-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3559-A-23-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40686

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3557-1	BH01	Total/NA	Solid	8015B NM	40653
MB 880-40653/1-A	Method Blank	Total/NA	Solid	8015B NM	40653
LCS 880-40653/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40653
LCSD 880-40653/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40653
890-3559-A-23-G MS	Matrix Spike	Total/NA	Solid	8015B NM	40653
890-3559-A-23-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3557-1	BH01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3557-1	BH01	Soluble	Solid	DI Leach	
MB 880-40386/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40386/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Job ID: 890-3557-1 SDG: 03E1558138

HPLC/IC (Continued)

LCS 880-40386/2-A

LCSD 880-40386/3-A

890-3551-A-4-A MS

890-3551-A-4-A MSD

Leach Batch: 40386 (Continued)

Lab Control Sample

Matrix Spike

Lab Control Sample Dup

Matrix Spike Duplicate

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3551-A-4-A MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3551-A-4-A MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
Analysis Batch: 40550)				
Analysis Batch: 40550 - Lab Sample ID) Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Analysis Batch: 40550 - Lab Sample ID 890-3557-1		Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 40386

Soluble

Soluble

Soluble

Soluble

Solid

Solid

Solid

Solid

300.0

300.0

300.0

300.0

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5

8

40386

40386

40386

40386

Job ID: 890-3557-1 SDG: 03E1558138

Lab Sample ID: 890-3557-1 Matrix: Solid

Client Sample ID: BH01 Date Collected: 11/22/22 12:05 Date Received: 11/22/22 15:00

Project/Site: Remuda 100 CTB

Client: Ensolum

	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	40625	11/29/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40842	12/02/22 18:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41053	12/05/22 14:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40779	12/01/22 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	40653	11/30/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40686	12/01/22 00:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40386	11/28/22 08:56	СН	EET MID
Soluble	Analysis	300.0		5			40550	11/29/22 13:15	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 4/26/2023 10:00:33 AM

Laboratory: Eurofins Midland

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

thority	P	rogram	Identification Number	Expiration Date
xas	N	IELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, b	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for
the agency does not o		Matrix	Analyte	
Analysis Method	fer certification. Prep Method	Matrix	Analyte	
0,		Matrix Solid Solid	Analyte Total TPH Total BTEX	

10

Job ID: 890-3557-1 SDG: 03E1558138

Method Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 890-3557-1 SDG: 03E1558138

lethod	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
otal BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
800.0	Anions, Ion Chromatography	MCAWW	EET MID
6035	Closed System Purge and Trap	SW846	EET MID
015NM Prep	Microextraction	SW846	EET MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

4 5 7 8 9 10 11 12 13 14

Sample Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 890-3557-1 SDG: 03E1558138

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3557-1	BH01	Solid	11/22/22 12:05	11/22/22 15:00	1	4
						5
						8
						9
						12
						13

Page of	er Comments Brownfields RRC Superfund PST/UST TRRP Level N ADaPT Other:	Preservative Codes Nome: NO DI Water: H2O Cool: Cool MeOH: Me H-L: HC HNO 3; HN H3O 4; H2 NaOH: Na Naps 0 4; H2 NaOH: Na Naps 2; 0 3; Nas 0 3 Sample Comments Invictent # : Invictent # : Cost Center : /Obs 1 val 0 ol /Obs 1 val 0 ool Ool	TI Sn U V Zn /7470 /7471	Pate/Time
Work Order No: _	Work Orde Program: UST/PST Program: UST/PST Reporting: Level II Reporting: Level II Deliverables: EDD	ANALYSIS REQUEST	li K Se Ag SiO ₂ Na Sr Hg: 1631/245.1 tated.	ignature) Received by: (Signature)
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	Cancet Green XTO Energy 3104 E Greene St Carlsbad, NM 8822	X LPH X CHIONDOL	AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K CRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U vto Eurofins Xenco, its affiliates and subcontractors, its assigns standard terms and conditions or expenses incurred by the client if such losses are due to citrumstances beyond the control initied to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated	Date/Time Relinquished by: (Signature)
	KS Hury Address: City, State ZIP: C	Construction Turn around Pres. Parameter Pres. Pres.	BRCRA 13PPM Texas 11 AI Si TCLP / SPLP 6010 : BRCRA utes a valid purchase order from client company to Eur any issues or ever ever all not assume any responsibility for any issues or ever opert and a charge of St for each sample submitted to	Received by: (Signature)
🐝 eurofins Environment Testing Xenco	Project Manager: Ben Beli II Company Name: Ensolum, LLC Address: 3122 Nat'i Parks City. State ZIP: Carlsbace, NM 88 Phone: 989. 0534.00532	Project Name: Remuticity Ct R Project Number: 0.3155 8138 Project Location: 30.37708,70394375 Sampler's Name: Mercedith Doberts Po #: Mercedith Doberts SAMPLE RECEIPT Temp Blank: Po #: Yes No Samples Received Intact: Yes No Cooler Custody Seals: Yes No Sample Custody Seals: Yes No Total Containers: Yes No Sample dentification Matrix	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 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 sence. Eurofins Xenco. Aminimum charge of 585 00 will be applied to each project and a charge of 55 for each supple submitted to Eurofins Xenco. but not analyzed. These terms will be enforced unless previously negoritated.	Refined by: (Signature) Receiv

12/5/2022

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Released to Imaging: 4/26/2023 10:00:33 AM Page 18 of

Received by OCD: 12/14/2022 8:57:08 AM

1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199 Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company Eurofins Environment Testing South Centr Address.	Sampler Phone Date Requested	hain o	of Cu	Chain of Custody Record	/ Record	ecord r er Jessica ca Kramer@et.eurofinsus.co Accreditations Required (See note): NELAP - Texas	at eur equirec	See n	s com		Carrier Tra State of O New Me	Carrier Tracking No(s) State of Origin: New Mexico	- Origin rackin	g No(÷			COC 890- Page Page Page Job #	COC No. 890-1042 1 Page Page Page 1 of 1 Job # 890-3557-1 Preservation Coc	"" CUROTINS COC No. 880-1042 1 Page Page 1 of 1 Job # S80-3557-1 Preservation Codes	ö	ŭ m	Environment Testing	1 mr		Ă Î	
Midland State Zip TX 79701 Phone: 432-704-5440(Tel)	TAT Requested (days) PO #:	ys)			1) Full TPH	•										TO US		NaOH Zn Acetate Nitric Acid NaHSO4 MeOH Amchlor	vcid			None AsNaO2 Na2O4S Na2SO3 Na2SO3 Na2SO4 H2SO4 H2SO4		ec ū ~ ??	0	<u>a</u>
Email Project Name	WO #: Project #:				2010/00/00/00/00/00/00/00/00/00/00/00/00/	_Prep (MOI	CH Chloric										ners		Ice DI Water EDTA	ASCUIDIC ACIA ce DI Water EDTA EDTA			Acetone MCAA pH 4-5 Trizma	a 5 ^ ne			
Project Name Remuda 100 CTB Site	Project #: 89000093 SSOW#:				stronger, chereiter weite zusen	015NM_S_P			v								of containe		EDA DA				Trizma other (specify)	(spe)eci	<u>Õ</u> .	Ś.
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)			8015MOD_NM/8	8015MOD_Calc 	8021B/6036FP_0	Total_BTEX_GC								Total Number		ဖွ	recia			tion		Ż 🛛	e	2 1
	X	X	Preserv	Preservation Code:	X	- Martin	- (1999) - (1999)	yad.	T	3		<u>kana</u>	land-			<u>ienend</u>	\mathbf{X}^{\dagger}		ł		٧Ē	Į	ΛĮ		112	形 翻子	1 11 5
BH01 (890-3557-1)	11/22/22	12 05 <u>Mountain</u>		Solid		×	×	×	×			_					×									1	3
													+-+		+++	+-+	707									1 1	
						\square	++	+			+	+	╉┯┼	╋	++-	+		Provinces address to the								1	
																		hellowed & bollowed &									
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment. Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.	ent Testing South Centrabove for analysis/tests above for analysis/tests central LLC attention im	al, LLC places matrix being a mediately If.	an analyzed the all requested	p of method a samples must accreditations	are current	creditati back to date	neturn	pliance ofins E	nvironi ed Ch	nent Te	sting stody	t labo	atorie	said o	i sam	ance t	o Euro	is for		id und	ler cha	Nin-of Vided	F-cust 1 An	tody ty ch	ntra ha		₽8
Possible Hazard Identification Unconfirmed Deliverable Requested 1 II III IV Other (specify)	Primary Deliverable Rank 2	ible Rank	N		Sp Sa	Sample Disposal (A fee may be ass Return To Client Dis Special Instructions/QC Requirements	le Disposal (A f Return To Client al Instructions/QC	o Clie ions/(DC Re	fee may be assessed if samples are retained longer than 1 month) t Disposal By Lab Archive For Mon C Requirements	Di as	assessed if san Disposal By Lab :nts	i By	samı Lab	les		etain Arc	tained long Archive For	ong € For	r tha	33 1	N mor	nth) Months	ths	"		1 1
Empty Kit Relinquished by		Date			Time		2					3	Method of Shipment:	of Shi	oment												1
Relinquished by UU	Date/Time Date/Time			Company Company		Receiv	ed by	R	P	R	Ы	N		Date.	Date/Time,	"V"	6	Ľ	S	12		Con Con	Company Company	Y Ÿ		I I	 1 1
Relinquished by:	Date/Time			Company		Received by	ed by:							D.	Date/Time	ē						Con	Company	۲		1	 1
Custody Seals Intact: Custody Seal No ∆ Yes ∆ No						Cooler Temperature(s)	Tempe			°C and Other Remarks	1	2440		┢								ſ	l		L		

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12 13 14

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Job Number: 890-3557-1 SDG Number: 03E1558138

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3557 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	

Job Number: 890-3557-1 SDG Number: 03E1558138

List Source: Eurofins Midland

List Creation: 11/23/22 11:47 AM

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 3557 List Number: 2 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	N/A	

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/5/2022 1:33:32 PM

JOB DESCRIPTION

Remuda 100 CTB SDG NUMBER 03E1558138

JOB NUMBER

890-3558-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



Received by OCD: 12/14/2022 8:57:08 AM

1

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

RAMER

Generated 12/5/2022 1:33:32 PM

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

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

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	Definitions/Glossary		
Client: Ensolum		Job ID: 890-3558-1	
Project/Site: Re	muda 100 CTB	SDG: 03E1558138	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
S1-	Surrogate recovery exceeds control limits, low biased.		
U	Indicates the analyte was analyzed for but not detected.		5
GC Semi VOA			
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		8
U	Indicates the analyte was analyzed for but not detected.		
Glossary			9
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)		13
Dil Fac	Dilution Factor		
	Detection Limit (DoD/DOE)		
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		
DLC EDL	Decision Level Concentration (Radiochemistry) Estimated Detection Limit (Dioxin)		
LOD	Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE)		
LOD	Limit of Detection (DoD/DOE) 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)		
	Departing Limit or Deguasted Limit (Dediashemistry)		

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

4

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Job ID: 890-3558-1 SDG: 03E1558138

Job ID: 890-3558-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: Remuda 100 CTB

Narrative

Job Narrative 890-3558-1

Receipt

The sample was received on 11/22/2022 3:00 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 5.4° C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-40686/5), (LCS 880-40653/2-A) and (LCSD 880-40653/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-3559-A-23-F). 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: BH01A (890-3558-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40653 and analytical batch 880-40686 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.

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

Job ID: 890-3558-1 SDG: 03E1558138

Client Sample ID: BH01A

Project/Site: Remuda 100 CTB

Date Collected: 11/22/22 12:10 Date Received: 11/22/22 15:00

Sample Depth: 2

Client: Ensolum

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 18:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 18:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 18:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/29/22 16:02	12/02/22 18:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 18:57	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/29/22 16:02	12/02/22 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			11/29/22 16:02	12/02/22 18:57	1
1,4-Difluorobenzene (Surr)	87		70 - 130			11/29/22 16:02	12/02/22 18:57	1
Method: TAL SOP Total BTEX - 1	Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/05/22 14:17	1
Method: SW846 8015 NM - Diese	al Rango Organ	ice (DRO) (C)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	mg/Kg			12/01/22 12:06	1
 Method: SW846 8015B NM - Dies	sol Rango Orga	nice (DRO)	(60)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics			49.9			11/30/22 08:30	12/01/22 01:04	
(GRO)-C6-C10	10.0	0		ma/Ka				
				mg/Kg			12/01/22 01:04	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg mg/Kg		11/30/22 08:30	12/01/22 01:04	
	<49.9	U						1
Diesel Range Organics (Over	<49.9 <49.9							1
Diesel Range Organics (Over C10-C28)		U	49.9	mg/Kg		11/30/22 08:30	12/01/22 01:04	1 1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9 49.9	mg/Kg		11/30/22 08:30 11/30/22 08:30	12/01/22 01:04 12/01/22 01:04	1 1 1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 	U	49.9 49.9 Limits	mg/Kg		11/30/22 08:30 11/30/22 08:30 Prepared	12/01/22 01:04 12/01/22 01:04 Analyzed	1 1 1 Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 	U Qualifier S1+	49.9 49.9 <u>Limits</u> 70 - 130 70 - 130	mg/Kg		11/30/22 08:30 11/30/22 08:30 Prepared 11/30/22 08:30	12/01/22 01:04 12/01/22 01:04 <u>Analyzed</u> 12/01/22 01:04	1 1 1 Dil Fac 1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 % <i>Recovery</i> 127 155 s, lon Chromato	U Qualifier S1+	49.9 49.9 <u>Limits</u> 70 - 130 70 - 130	mg/Kg	D	11/30/22 08:30 11/30/22 08:30 Prepared 11/30/22 08:30	12/01/22 01:04 12/01/22 01:04 <u>Analyzed</u> 12/01/22 01:04	1 1 1 Dil Fac 1

Job ID: 890-3558-1 SDG: 03E1558138

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-3549-A-1-C MS	Matrix Spike	114	102	
90-3549-A-1-D MSD	Matrix Spike Duplicate	104	101	
90-3558-1	BH01A	106	87	
CS 880-40625/1-A	Lab Control Sample	105	100	
CSD 880-40625/2-A	Lab Control Sample Dup	104	97	
MB 880-40625/5-A	Method Blank	68 S1-	94	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
-3558-1	BH01A	127	155 S1+	
559-A-23-G MS	Matrix Spike	121	123	
3559-A-23-H MSD	Matrix Spike Duplicate	124	126	
80-40653/2-A	Lab Control Sample	183 S1+	217 S1+	
880-40653/3-A	Lab Control Sample Dup	170 S1+	200 S1+	
880-40653/1-A	Method Blank	116	145 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Project/Site: Remuda 100 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40625/5-A

Matrix: Solid Analysis Batch: 40842

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130			11/29/22 16:02	12/02/22 11:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130			11/29/22 16:02	12/02/22 11:45	1

Lab Sample ID: LCS 880-40625/1-A Matrix: Solid

Analysis Batch: 40842

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1252		mg/Kg		125	70 - 130	
Toluene	0.100	0.1206		mg/Kg		121	70 - 130	
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2198		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-40625/2-A

Matrix: Solid

	Analysis Batch: 40842							Prep	Batch:	40625
		Spike	LCSD	LCSD				%Rec		RPD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
i	Benzene	0.100	0.1186		mg/Kg		119	70 - 130	5	35
-	Toluene	0.100	0.1151		mg/Kg		115	70 - 130	5	35
1	Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130	5	35
1	m-Xylene & p-Xylene	0.200	0.2094		mg/Kg		105	70 - 130	5	35
	o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	0	35

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

Lab Sample ID: 890-3549-A-1-C MS

Matrix: Solid

Analysis Batch: 40842								Prep Batch: 40625		
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.1021		mg/Kg		103	70 - 130	
Toluene	<0.00201	U	0.0996	0.1062		mg/Kg		107	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 40625

Client: Ensolum Project/Site: Remuda 100 CTB

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

Lab Sample ID: 890-3549-A					Client	Sample ID					
Matrix: Solid										Type: To	
Analysis Batch: 40842	0.11							Batch:	40625
	•	Sample	Spike		MS		_	~-	%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00201		0.0996	0.1009		mg/Kg		101	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2022		mg/Kg		101	70 - 130		
o-Xylene	<0.00201	U	0.0996	0.1035		mg/Kg		104	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								
Analysis Batch: 40842	Sample	Sample	Spike	MSD	MSD				%Rec	Batch:	4002 RPI
Australia		Qualifiar	Added	Popult	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Analyte	Result	Quaimer	Auueu	Result				/01100	LIIIIIIS		
Benzene			0.0990	0.09136		mg/Kg		92	70 - 130	11	3
		U				mg/Kg mg/Kg					3: 3:
Benzene Toluene	<0.00201	U U U	0.0990	0.09136				92	70 - 130	11	
Benzene Toluene Ethylbenzene	<0.00201 <0.00201	U U U U	0.0990	0.09136 0.09165		mg/Kg		92 93	70 - 130 70 - 130	11 15	3: 3:
Benzene	<0.00201 <0.00201 <0.00201		0.0990 0.0990 0.0990	0.09136 0.09165 0.08677		mg/Kg mg/Kg		92 93 88	70 - 130 70 - 130 70 - 130	11 15 15	3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	<0.00201 <0.00201 <0.00201 <0.00402 <0.00201		0.0990 0.0990 0.0990 0.198	0.09136 0.09165 0.08677 0.1732		mg/Kg mg/Kg mg/Kg		92 93 88 87	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	11 15 15 15	3: 3: 3:
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	<0.00201 <0.00201 <0.00201 <0.00402 <0.00201	U U U U U MSD	0.0990 0.0990 0.0990 0.198	0.09136 0.09165 0.08677 0.1732		mg/Kg mg/Kg mg/Kg		92 93 88 87	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	11 15 15 15	3! 3! 3!
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	<0.00201 <0.00201 <0.00201 <0.00402 <0.00201 <i>MSD</i>	U U U U U MSD	0.0990 0.0990 0.0990 0.198 0.0990	0.09136 0.09165 0.08677 0.1732		mg/Kg mg/Kg mg/Kg		92 93 88 87	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	11 15 15 15	3: 3: 3:

Lab Sample ID: MB 880-40653/1-A Matrix: Solid Analysis Batch: 40686

-	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/30/22 08:30	11/30/22 14:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/30/22 08:30	11/30/22 14:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/30/22 08:30	11/30/22 14:25	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			11/30/22 08:30	11/30/22 14:25	1

70 - 130

145 S1+

Lab Sample ID: LCS 880-40653/2-A Matrix: Solid

o-Terphenyl

Analysis Batch: 40686					Prep Batch: 40653				
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	994.8		mg/Kg		99	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1096		mg/Kg		110	70 - 130		
C10-C28)									

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Prep Type: Total/NA

Client Sample ID: Method Blank

11/30/22 08:30 11/30/22 14:25

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 40653

1
QC Sample Results

Client: Ensolum Project/Site: Remuda 100 CTB

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

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

<49.9 U

<49.9 U

MSD MSD

%Recovery Qualifier

124

126

ethod: 8015B NM - Diese		games (E			<u>u)</u>							
Lab Sample ID: LCS 880-4065	3/2-A						Client	Sample	e ID: Lab Co	ontrol S	ample	
Matrix: Solid									Prep T	Type: Tot	tal/NA	
Analysis Batch: 40686									Prep	Batch:	40653	
	105	LCS										
Surrogate	LCS %Recovery		Limits									
1-Chlorooctane			70 - 130									
o-Terphenyl		S1+	70 - 130 70 - 130									
- Terphenyi -		571	10-100									
Lab Sample ID: LCSD 880-406	53/3-A					Clie	nt Sam	ple ID: /	Lab Contro	I Sampl	e Dup	
Matrix: Solid										Гуре: Tot		
Analysis Batch: 40686										Batch:		
			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics			1000	834.2		mg/Kg		83	70 - 130	18	20	
(GRO)-C6-C10												
Diesel Range Organics (Over			1000	993.6		mg/Kg		99	70 - 130	10	20	
C10-C28)												
	LCSD	LCSD										
Surrogate	%Recovery		Limits									
1-Chlorooctane	170	S1+	70 - 130									
o-Terphenyl	200	S1+	70 - 130									
_ Lab Sample ID: 890-3559-A-23	C MS							Client	Sample ID:	Matrix	Spiko	
Matrix: Solid	-GIVIS							Client		Fype: Tot	-	
Analysis Batch: 40686										Batch:		
Analysis Datch. 40000	Sample	Sample	Spike	MS	MS				%Rec	Battin.	40055	
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics				1262	Quanner	mg/Kg			70 - 130			
(GRO)-C6-C10		0	333	1202		Шулху		122	70 - 100			
Diesel Range Organics (Over	<49.9	U	999	1256		mg/Kg		122	70 - 130			
C10-C28)												
	MS	MS										
Surrogate	%Recovery		Limits									
1-Chlorooctane	121	<u>.</u>	70 - 130									
o-Terphenyl	123		70 - 130									
_	·=-		1000									
Lab Sample ID: 890-3559-A-23	J-H MSD					CI	lient Sa	ample IC	D: Matrix Sp	oike Dur	olicate	
Matrix: Solid								-	Prep 7	Type: Tot	tal/NA	
Analysis Batch: 40686										Batch:		
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result											

997

997

Limits

70 - 130

70 - 130

1183

1325

mg/Kg

mg/Kg

114

129

70 - 130

70 - 130

20

20

6

5

Project/Site: Remuda 100 CTB

Client: Ensolum

QC Sample Results

Job ID: 890-3558-1 SDG: 03E1558138

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40386/1-A											Client S	ample ID:		
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 40550														
		MB												
Analyte	-		Qualifier		RL		Unit		D	P	repared	Analyz		Dil Fa
Chloride	<	5.00	U		5.00		mg/K	g				11/29/22	09:19	
Lab Sample ID: LCS 880-40386/2-A									Cli	ent	Sample	ID: Lab Co	ontrol S	ample
Matrix: Solid												Prep	Type: S	olubl
Analysis Batch: 40550														
-				Spike	L	S LC	S					%Rec		
Analyte				Added	Res	lt Qu	alifier	Unit		D	%Rec	Limits		
Chloride				250	24	4		mg/Kg		_	97	90 - 110		
Lab Sample ID: LCSD 880-40386/3-/	Δ							Cli	ient S	Sam	nle ID: I	Lab Contro	l Sampl	le Dur
Matrix: Solid													Type: S	
Analysis Batch: 40550													.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	010101
				Spike	LC	D LC	SD					%Rec		RP
Analyte				Added	Res	lt Qu	alifier	Unit		D	%Rec	Limits	RPD	Lim
Chloride				250	242	0		mg/Kg		_	97	90 - 110	0	2
											Client	Sample ID	: Matrix	Spik
Lab Sample ID: 890-3551-A-4-A MS														
												Prep	Type: S	olubi
Matrix: Solid												Prep	Type: S	OIUDI
Matrix: Solid	Sample	Samı	ple	Spike	ı	s ms	5					Prep %Rec	Type: S	οιυρι
Matrix: Solid Analysis Batch: 40550	Sample	Samı Quali		Spike Added	-) alifier	Unit		D	%Rec		Type: S	οιαρι
Matrix: Solid Analysis Batch: 40550 Analyte	Sample				-	lt Qu	-	Unit mg/Kg		<u>D</u>	%Rec 101	%Rec	Type: S	
Matrix: Solid Analysis Batch: 40550 Analyte Chloride	Sample Result 48.9			Added	Res	lt Qu	-	mg/Kg	Clien	_	101	%Rec Limits 90 - 110		
Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: 890-3551-A-4-A MSI	Sample Result 48.9			Added	Res	lt Qu	-	mg/Kg	Clien	_	101	%Rec Limits 90 - 110 D: Matrix Sp		olicate
Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: 890-3551-A-4-A MSI Matrix: Solid	Sample Result 48.9			Added	Res	lt Qu	-	mg/Kg	Clien	_	101	%Rec Limits 90 - 110 D: Matrix Sp		olicat
Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: 890-3551-A-4-A MSI Matrix: Solid	Sample Result 48.9	Quali	ifier	Added	Res 299	lt Qu	alifier	mg/Kg	Clien	_	101	%Rec Limits 90 - 110 D: Matrix Sp		olicat
Lab Sample ID: 890-3551-A-4-A MS Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: 890-3551-A-4-A MSI Matrix: Solid Analysis Batch: 40550 Analyte	Sample Result 48.9	Quali	ifier	Added 249	Res 299	It Qu 9	alifier	mg/Kg	Clien	_	101	%Rec Limits 90 - 110 9: Matrix Sp Prep		olicate

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QC Association Summary

Client: Ensolum Project/Site: Remuda 100 CTB

GC VOA

Prep Batch: 40625

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3558-1	BH01A	Total/NA	Solid	5035	
MB 880-40625/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40625/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40625/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3549-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3549-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 40842					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3558-1	BH01A	Total/NA	Solid	8021B	40625
MB 880-40625/5-A	Method Blank	Total/NA	Solid	8021B	40625
LCS 880-40625/1-A	Lab Control Sample	Total/NA	Solid	8021B	40625
LCSD 880-40625/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40625
890-3549-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	40625
890-3549-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40625
analysis Batch: 41054					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3558-1	BH01A	Total/NA	Solid	Total BTEX	

Prep Batch: 40653

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3558-1	BH01A	Total/NA	Solid	8015NM Prep	
MB 880-40653/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40653/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40653/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3559-A-23-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3559-A-23-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3558-1	BH01A	Total/NA	Solid	8015B NM	40653
MB 880-40653/1-A	Method Blank	Total/NA	Solid	8015B NM	40653
LCS 880-40653/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40653
LCSD 880-40653/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40653
890-3559-A-23-G MS	Matrix Spike	Total/NA	Solid	8015B NM	40653
890-3559-A-23-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40653
Analysis Batch: 40780					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

Solid

8015 NM

HPLC/IC

890-3558-1

Leach Batch: 40386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3558-1	BH01A	Soluble	Solid	DI Leach	
MB 880-40386/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40386/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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BH01A

Job ID: 890-3558-1 SDG: 03E1558138

HPLC/IC (Continued)

890-3551-A-4-A MS

890-3551-A-4-A MSD

Leach Batch: 40386 (Continued)

Matrix Spike

Matrix Spike Duplicate

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3551-A-4-A MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3551-A-4-A MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Lab Sample ID		Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 40386
Lab Sample ID 890-3558-1	Client Sample ID				
Lab Sample ID 890-3558-1 MB 880-40386/1-A LCS 880-40386/2-A	Client Sample ID BH01A	Soluble	Solid	300.0	40386

Soluble

Soluble

Solid

Solid

300.0

300.0

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8

40386

40386

Lab Sample ID: 890-3558-1

Job ID: 890-3558-1 SDG: 03E1558138

Matrix: Solid

9

Client Sample ID: BH01A Date Collected: 11/22/22 12:10

Client: Ensolum

Date Received: 11/22/22 15:00

Project/Site: Remuda 100 CTB

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40625	11/29/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40842	12/02/22 18:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41054	12/05/22 14:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40780	12/01/22 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40653	11/30/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40686	12/01/22 01:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40386	11/28/22 08:56	СН	EET MID
Soluble	Analysis	300.0		5			40550	11/29/22 13:23	SMC	EET MID

Laboratory References:

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

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Released to Imaging: 4/26/2023 10:00:33 AM

Laboratory: Eurofins Midland

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

hority	F	rogram	Identification Number	Expiration Date
as	Ν	IELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report. b	out the laboratory is not certif	ied by the governing authority. This list ma	av include analvtes for w
the agency does not o	fer certification.			, ,
the agency does not of Analysis Method		Matrix	Analyte	
the agency does not o	fer certification.			

10

Job ID: 890-3558-1

SDG: 03E1558138

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Method Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 890-3558-1 SDG: 03E1558138

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 890-3558-1 SDG: 03E1558138

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3558-1	BH01A	Solid	11/22/22 12:10	11/22/22 15:00		4
						5
						8
						9
						12
						13

No:	Work Order Comments NRC Superfund PRP Brownfields RRC Superfund Level III PST/UST TRRP Level IV ADaPT Other: Other:	Preservative Codes None: NO DI Water: H ₂ O Cool: Cool MeOH: Me H ₂ PO ₄ : HC HNO H ₂ PO ₄ : HP NaOH: Na H ₃ PO ₄ : HP NaOH: Na NaHSO NaOH: Na H ₃ PO ₄ : HP NaOH: Na NaHSO NaOH: AC NaHSO Sample Comments Incudent # : Incudent # : Incudent # : Incudent * : Incodent * : Incudent * : Incodent * : : Incode * : :	Na Sr TI Sn U V Zn /245.1/7470 /7471	nature) Date/Time Revised Date 06/25/2020 Rev. 2020 2
Work Order No:	Work Order Program: UST/PST PRP E Ftate of Project: Reporting: Level II Level III Deliverables: EDD AI	WALYSIS REOUEST	li K Se Ag SiO ₂ Hg: 1631 , tated.	ature) Received by: (Signature)
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 EL Paso, TX (915) 392-7550, Carlsbad, NM (575) 988-3199	r different Gamet + Caren y Name: XTC Energy XTC Energy 3104 E Carene St te ZP: Cansbad, NM 88220 Definit@enscium.com	ANALYSIS RECUENTING ANALYSIS RECOURT X BTEX BBC 3558 Chain o BBC 3558 Chain o	(as 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K 0 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U nt company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions into losses or expenses incurred by the client if such losses are due to circumstances beyond the control mple submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Date/Time Relinquished by: (Signature)
Ch Houston, TX (2 Midland, TX (432 EL Paso, TX (91) HODBS, NM (57	Bill to: (Compar Address City, Sta	Tart Aboutine Tart Aboutine Rest. Due Date: Due Date: Code Due Date: No Pres. Vet lce: Fey No Pres. Wet lce: Fey No Pres. ID: TYN. EDP Paranteller ID: TYN. EDP Pres. Meet lce: Fey No Pres. ID: TYN. EDP Pres. ID: TYN. EDP Pres. ID: TYN. EDP Pres. Reading: S. V Pres. Sampled Depth Grab IJUO 2' A	BRCRA 13PPM Texas 11 AI Sb TCLP / SPLP 6010 : BRCRA Si a valid purchase order from client company to Eurofi or assume any responsibility for any losses or expense tand a charge of 55 for each sample submitted to Eu	Let at 11
fins Environment Testing Xenco	Ben Belill Ensolum HC 3122 Nat'l Parks Hwy Carlshudi NM 88220 989.854 0852 Email:	22.27108.100.678 53.51558138 22.27108.103.9429 Acrditta Dalarts Temp Blank: (Fes. No Thermometer (Fes. No Ves.	200.8 / 6020: nd Metal(s) to be analyzed ment and relinquishment of samples constitutes the lable only for the cost of samples and shall charge of \$85.00 will be applied to each project	aquished by: (Signature) Received by: (Signature)
💸 eurofins	Project Manager: Company Name: Address. City, Staie ZIP: Phone:	Project Number: 03 Project Location: 32. Sampler's Name: 03 PO #: 32 PO #: 32 Samples Received Intact: Cooler Custody Seals: Total Containers: Total Containers:	Total 200.7 / 6010 Circle Method(s) ar Notice: Signature of this docum of Eurofins Xenco. Aminhumum	Rainquished by

Received by OCD: 12/14/2022 8:57:08 AM

Released to Imaging: 4/26/2023 10:00:33 AM

Eurofins Carlsbad													-																		
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Cansbad NM 88220 Phone: 575-988-3199 Fax 575-988-3199				Ļ										ΕŤ											•	Environment Testing	iron	mer	nt Te	estir	60
Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	Lab PM Kramer Jessica	ssica							Carrier Tracking No(s)	er Tra	cking	No(s	Ŭ			<u></u>	COC No 890-10	COC No 890-1042 1	2								
_{ttact:} g/Receiving	Phone:			E-Mail Jessi	E-Mail Jessica Kramer@et.eurofinsus co	Imer	Det.e	urofi	nsus	com			State of Origin. New Mexico	Me	ig gin						Page Page	Page Page 1 of 1	۳ 1								
Company Eurofins Environment Testing South Centr					Accreditations Required (See note) NELAP - Texas	P - Te	Requi	red (S	iee no	te)										<u>ہ</u> د	:+ 068	Job #: 890-3558-1	μ -								
Address 1211 W Florida Ave	Due Date Requested 11/30/2022	٩							Ą	Analy	Isis	Requested	ues	fed							Tes	Preservation Codes	tion	ŝ	N IS	- 1	Hexane	۳ I			
City Midland	TAT Requested (days)	ys)																	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			HCL NaOH Zn Ace	itate		oz:	As	None AsNaO	Ñ (
State Zip. TX 79701					<mark>Andrija</mark> Rođen recturence da	ТРН														selector. M		Nitric Acid NaHSO4	Acid		σοσ		Na2O4S Na2SO3 Na2SO3	ുപ്പറ			
Phone: 432-704-5440(Tel)	PO#				<u>)</u>	D) Full		le											*****	se Line	1	Amchlor	it q R	ź	⊣ o ;		H2SO4 TSP Dodecahydrate)deca	зhydi	rate	
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Project Name Remuda 100 CTB	Project # 89000093				- 2012 IN	_S_Pr		EACH	OD) B									. <u> </u>		raine	רי⊃ ⊡ п	EDA EDIA			NЧ	울크고	Trizma other (specify)	ipecif	Ś		
Site:	SSOW#				and the second second	015NN		3D/DI_L	Calc (N	×										Section of the	Other:	Ŀ									
		Sample	Sample Type	Matrix (W=water S=solid,	d Filtered form MS/N	MOD_NM/8	MOD_Calc	ORGFM_28	B/5035FP_	I_BTEX_GO							· · · · · · · ·			il Number											
Sample Identification - Client ID (Lab ID)	Sample Date	Time	<u> </u>		F Distant	801	801	300	802	Tot			-	(Januara)	and a second		-			Tol		s	Special Instructions/Note	al Ir	nstr	ruct	lion	NIS	ote.	ľ	2
			Preservation Code:	on Code:	X	-	1	and the second second	State	Strack reads	in the second				1	in the second	<u>Lenzis</u>	Contraction of the second		¥	Ľ.				1			P			S.
BH01A (890-3558-1)	11/22/22	Mountain		Solid		×	×	×	×	×									CT 2 304	-											
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Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratores. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.	Testing South Centro ove for analysis/tests tral_LLC attention im	al LLC places /matrix being a imediately If a	the ownership on nalyzed the sau all requested ac	of method analy mples must be creditations are	yte & ac shippec current	l back t to dat	ation c to the e retu	ompli Eurofi	ance u Ins En	vironr d Cha	nent] ain of	bcont Festin Custo	act la g Sou dy att	borat th Ce	ntral to se	H C H	sam abora	ple s atory	or of	ent i her i	s fon nstru ns Er	wards Iction	₃d un s will 1mer	hder (be p	chain provic	1-of- Sou	Any)dy chai	If the nges	05	
Possible Hazard Identification					Sa	Sample Disposal (A fee	Dis	osa	I A	fee	may	be	sse	sed	ifs	amp	les	are	reta	ine i	010	may be assessed if samples are retained longer	ŝ	than	3	1 month)	Ę				
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Custody Seals Intact: Custody Seal No ∆ Yes ∆ No						Coot	Cooler Temperature(s) °C	npera	ture(s)	°Ca	and Other Remarks	her Ro	mark	,e,	1 1																1
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Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3558 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	

Job Number: 890-3558-1 SDG Number: 03E1558138

List Source: Eurofins Carlsbad

Eurofins Carlsbad Released to Imaging: 4/26/2023 10:00:33 AM

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Job Number: 890-3558-1 SDG Number: 03E1558138

List Source: Eurofins Midland

List Creation: 11/23/22 11:47 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3558 List Number: 2 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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/9/2022 4:42:47 PM

JOB DESCRIPTION

Remuda 100 CTB SDG NUMBER 03E1558138

JOB NUMBER

880-22253-1

EOL

Eurofins Midland 1211 W. Florida Ave Midland TX 79701





Received by OCD: 12/14/2022 8:57:08 AM

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Eurofins Midland

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

RAMER

Generated 12/9/2022 4:42:47 PM

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

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

Laboratory Job ID: 880-22253-1 SDG: 03E1558138

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Definitions/Glossary

Client: Ensolum
Project/Site: Remuda 100 CTB

Job ID: 880-22253-1 SDG: 03E1558138

Project/Site: Re	emuda 100 CTB SDG: 03E1558138	
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	g
¤	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)	4.0
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

4

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Case Narrative

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 880-22253-1 SDG: 03E1558138

Job ID: 880-22253-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-22253-1

Receipt

The sample was received on 12/2/2022 2:37 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

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

Result Qualifier

Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

<0.00200 U

<0.00399 U

95

%Recovery

RL

0.00200

0.00200

0.00200

0.00399

0.00200

0.00399

Limits

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

12/07/22 09:16

12/07/22 09:16

12/07/22 09:16

12/07/22 09:16

12/07/22 09:16

12/07/22 09:16

Prepared

12/07/22 09:16

Job ID: 880-22253-1 SDG: 03E1558138

Analyzed

12/07/22 18:39

12/07/22 18:39

12/07/22 18:39

12/07/22 18:39

12/07/22 18:39

12/07/22 18:39

Analyzed

12/07/22 18:39

Client Sample ID: SS06

Project/Site: Remuda 100 CTB

Date Collected: 12/02/22 13:30 Date Received: 12/02/22 14:37

Sample Depth: 0.5'

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

Client: Ensolum

Lab Sample ID: 880-22253-1 Matrix: Solid

5 Dil Fac

1

1

1

1

1

1

Dil Fac

1,4-Difluorobenzene (Surr)	83		70 - 130			12/07/22 09:16	12/07/22 18:39	1
– Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/08/22 09:37	1
_ Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/08/22 10:05	1
_								
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		12/06/22 15:09	12/07/22 19:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		12/06/22 15:09	12/07/22 19:04	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/22 15:09	12/07/22 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			12/06/22 15:09	12/07/22 19:04	1
o-Terphenyl	130		70 - 130			12/06/22 15:09	12/07/22 19:04	1
_ Method: MCAWW 300.0 - Anions	Ion Chromate	ography - Se	oluble					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.0		5.05	mg/Kg			12/09/22 15:47	1

Eurofins Midland

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Job ID: 880-22253-1
SDG: 03E1558138

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	 5
880-22253-1	SS06	95	83	
880-22352-A-1-D MS	Matrix Spike	102	114	6
880-22352-A-1-E MSD	Matrix Spike Duplicate	102	119	
LCS 880-40641/1-A	Lab Control Sample	97	111	
LCSD 880-40641/2-A	Lab Control Sample Dup	96	116	
MB 880-40641/5-A	Method Blank	82	100	8
Surrogate Legend				
BFB = 4-Bromofluoroben	izene (Surr)			9

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 (70-130) Lab Sample ID **Client Sample ID** (70-130) 880-22122-A-41-C MS Matrix Spike 95 86 880-22122-A-41-D MSD Matrix Spike Duplicate 99 90 880-22253-1 SS06 123 130 LCS 880-41188/2-A Lab Control Sample 99 97 LCSD 880-41188/3-A Lab Control Sample Dup 92 90 MB 880-41188/1-A 96 Method Blank 105

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Job ID: 880-22253-1 SDG: 03E1558138

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40641/5-A

Project/Site: Remuda 100 CTB

Matrix: Solid Analysis Batch: 41222

Client: Ensolum

Analysis Batch: 41222							Prep Batch	n: 406 41
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			11/29/22 09:16	12/07/22 11:40	1
1,4-Difluorobenzene (Surr)	100		70 - 130			11/29/22 09:16	12/07/22 11:40	1

Lab Sample ID: LCS 880-40641/1-A Matrix: Solid

Analysis Batch: 41222

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09342		mg/Kg		93	70 - 130	
Toluene	0.100	0.08359		mg/Kg		84	70 - 130	
Ethylbenzene	0.100	0.07983		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	0.200	0.1630		mg/Kg		82	70 - 130	
o-Xylene	0.100	0.08217		mg/Kg		82	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-40641/2-A

Matrix: Solid

Benzene Toluene Ethylbenzene m-Xylene & p-Xylene						Prep	Batch:	40641	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1165		mg/Kg		117	70 - 130	22	35
Toluene	0.100	0.09996		mg/Kg		100	70 - 130	18	35
Ethylbenzene	0.100	0.09697		mg/Kg		97	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.1952		mg/Kg		98	70 - 130	18	35
o-Xylene	0.100	0.09498		mg/Kg		95	70 - 130	14	35
1000 1000									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

QC Sample Results

Project/Site: Remuda 100 CTB

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

Lab Sample ID: MB 880-41188/ Matrix: Solid											ample ID: M Prep Ty		
Analysis Batch: 41213												Batch	
		МВ МВ											
Analyte	Re	sult Qual	ifier	RL		U	nit	D	Р	repared	Analyze	d	Dil Fa
Gasoline Range Organics	<	50.0 U		50.0		n	ng/Kg		12/0	6/22 15:09	12/07/22 0	8:36	
GRO)-C6-C10													
Diesel Range Organics (Over	<{	50.0 U		50.0		n	ng/Kg		12/0	6/22 15:09	12/07/22 0	8:36	
C10-C28) DII Range Organics (Over C28-C36)	</td <td>50.0 U</td> <td></td> <td>50.0</td> <td></td> <td>m</td> <td>ng/Kg</td> <td></td> <td>12/0</td> <td>6/22 15:09</td> <td>12/07/22 0</td> <td>8:36</td> <td></td>	50.0 U		50.0		m	ng/Kg		12/0	6/22 15:09	12/07/22 0	8:36	
		0.0 0		00.0			9/119		12/0	0,22 10.00		0.00	
		MB MB											
Surrogate	%Recov			Limits						repared	Analyze		Dil F
-Chlorooctane		96		70 - 130						06/22 15:09	12/07/22 0		
-Terphenyl		105		70 - 130					12/0	06/22 15:09	12/07/22 0	8:36	
ab Sample ID: LCS 880-41188	R/2_A								liont	Samplo	ID: Lab Co	ntrol	Samn
Aatrix: Solid	<i></i>									Jampie	Prep Ty		
Analysis Batch: 41213												Batch	
			Spil	ke	LCS	LCS					%Rec	Baton	
nalyte			Adde		Result	Qualifi	er Unit		D	%Rec	Limits		
Gasoline Range Organics			100	00	854.5		mg/K	g		85	70 - 130		
GRO)-C6-C10							Ū	•					
liesel Range Organics (Over			100	00	798.7		mg/K	g		80	70 - 130		
:10-C28)													
	LCS	LCS											
urrogate	%Recovery	Qualifier	Limits	5									
-Chlorooctane	99		70 - 13	30									
-Terphenyl	97		70 - 13	30									
ab Sample ID: LCSD 880-411	00/2 1							Client	Sam		ah Control	Same	
Ab Sample ID. LCSD 660-411	00/ 3-A							Silein	Jan	ipie iD. L	ab Control Prep Ty		
												Batch	
Analysis Batch: 41213			Spil	ke	LCSD	LCSD					%Rec	Daten	R
nalyte			Adde			Qualifi	er Unit		D	%Rec	Limits	RPD	Lir
Basoline Range Organics			100		874.7		mg/K	a		87	70 - 130	2	
GRO)-C6-C10								5					
iesel Range Organics (Over			100	00	810.6		mg/K	g		81	70 - 130	1	
C10-C28)													
	LCSD	LCSD											
urrogate	%Recovery	Qualifier	Limits	5									
-Chlorooctane	92		70 - 13	30									
-Terphenyl	90		70 - 13	30									
ethod: 300.0 - Anions, lo	n Chromato	ograph	У										
ab Sample ID: MB 880-40994	/1-Δ									Client Se	ample ID: N	lethor	1 Rlai
Aatrix: Solid										Short Oc	Prep 1		
Analysis Batch: 41276											iiehi	100.0	Joint
anarysis Daton. 41270		МВ МВ											
nalyte		sult Qual	ifior	RL			nit	D	D	repared	Analyze	h	Dil F
	Ne	- an wual				0				. spaiou	7.1101y26		21

5

7

Job ID: 880-22253-1 SDG: 03E1558138

12/09/22 11:10

Chloride

5.00

mg/Kg

<5.00 U

1

QC Sample Results

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 880-22253-1 SDG: 03E1558138

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-40994/2-A Matrix: Solid					Client	Sample	ID: Lab Co Prep	ontrol Sa Type: Se	
Analysis Batch: 41276							~-		
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	262.5		mg/Kg		105	90 - 110		
 Lab Sample ID: LCSD 880-40994/3-A				Clier	nt Sam	nple ID: I	Lab Contro	I Sampl	e Dup
Matrix: Solid							Prep	Type: So	oluble
Analysis Batch: 41276									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Analyte	Audeu	Rooun	quannoi	•		/			Linne

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QC Association Summary

Client: Ensolum Project/Site: Remuda 100 CTB

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Job ID: 880-22253-1 SDG: 03E1558138

GC VOA

Prep Batch: 40641

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-22253-1	SS06	Total/NA	Solid	5035	
MB 880-40641/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40641/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40641/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
nalysis Batch: 41222					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-22253-1	SS06	Total/NA	Solid	8021B	40641
MB 880-40641/5-A	Method Blank	Total/NA	Solid	8021B	40641
LCS 880-40641/1-A	Lab Control Sample	Total/NA	Solid	8021B	40641
LCSD 880-40641/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40641
nalysis Batch: 41327					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-22253-1	SS06	Total/NA	Solid	Total BTEX	
C Semi VOA					
rep Batch: 41188					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22253-1	SS06	Total/NA	Solid	8015NM Prep	
MB 880-41188/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41188/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41188/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
nalysis Batch: 41213					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22253-1	SS06	Total/NA	Solid	8015B NM	41188
MB 880-41188/1-A	Method Blank	Total/NA	Solid	8015B NM	41188
LCS 880-41188/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41188
LCSD 880-41188/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41188
analysis Batch: 41342					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-22253-1	SS06	Total/NA	Solid	8015 NM	
IPLC/IC					
each Batch: 40994					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
880-22253-1	SS06	Soluble	Solid	DI Leach	
MB 880-40994/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40994/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40994/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
nalysis Batch: 41276					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22253-1	SS06	Soluble	Solid	300.0	40994
MB 880-40994/1-A	Method Blank	Soluble	Solid	300.0	40994
LCS 880-40994/2-A	Lab Control Sample	Soluble	Solid	300.0	40994
LCSD 880-40994/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40994

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Lab Chronicle

Client: Ensolum Project/Site: Remuda 100 CTB

Client Sample ID: SS06

Date Collected: 12/02/22 13:30 Date Received: 12/02/22 14:37

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			40641	MNR	EET MID	12/07/22 09:16
Total/NA	Analysis	8021B		1	41222	MNR	EET MID	12/07/22 18:39
Total/NA	Analysis	Total BTEX		1	41327	SM	EET MID	12/08/22 09:37
Total/NA	Analysis	8015 NM		1	41342	SM	EET MID	12/08/22 10:05
Total/NA	Prep	8015NM Prep			41188	DM	EET MID	12/06/22 15:09
Total/NA	Analysis	8015B NM		1	41213	SM	EET MID	12/07/22 19:04
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	СН	EET MID	12/09/22 15:47

Laboratory References:

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

Eurofins Midland

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 Job ID: 880-22253-1
 2

 SDG: 03E1558138
 2

 Lab Sample ID: 880-22253-1
 3

 Matrix: Solid
 3

		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: Remuda 1	00 CTB			Job ID: 880-22253-1 SDG: 03E1558138	2
Laboratory: Eurofi					
Unless otherwise noted, all a	analytes for this laboratory	y were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
Texas		NELAP	T104704400-22-24	06-30-23	E
The following analytes	are included in this repor	t, but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not of					
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH		
Total BTEX		Solid	Total BTEX		
					0
					8
					9
					_
					10
					4.4
					13

Eurofins Midland

Method Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 880-22253-1 SDG: 03E1558138

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	EET MID
otal BTEX	Total BTEX Calculation	TAL SOP	EET MID
015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
00.0	Anions, Ion Chromatography	MCAWW	EET MID
035	Closed System Purge and Trap	SW846	EET MID
015NM Prep	Microextraction	SW846	EET MID
01 Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 880-22253-1 SDG: 03E1558138

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
880-22253-1	SS06	Solid	12/02/22 13:30	12/02/22 14:37	0.5'	4
						5
						8
						9
						12
						13

5

13

14

Job Number: 880-22253-1 SDG Number: 03E1558138

List Source: Eurofins Midland

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 22253 List Number: 1 Creator: Kramer, Jessica

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.	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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Eurofins Midland Released to Imaging: 4/26/2023 10:00:33 AM Received by OCD: 12/14/2022 8:57:08 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/9/2022 7:47:58 PM

JOB DESCRIPTION

Remuda 100 CTB SDG NUMBER 03E1558138

JOB NUMBER

880-22254-1

CR 1 elill um 1 St. 1 100 1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

See page two for job notes and contact information.

Received by OCD: 12/14/2022 8:57:08 AM

Eurofins Midland

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

RAMER

Generated 12/9/2022 7:47:58 PM

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

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

Laboratory Job ID: 880-22254-1 SDG: 03E1558138

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Sample Summary	15
Chain of Custody	16
	17

	Definitions/Glossary
Client: Ensolum	

Project/Site: Remuda 100 CTB

Job ID: 880-22254-1 SDG: 03E1558138

Project/Site: Re	emuda 100 CTB SDG: 03E1558138	2
Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	6
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	8
Glossary		0
Abbreviation	These commonly used abbreviations may or may not be present in this report.	૭
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	10
%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	11
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 QC	Presumptive Quality Control	
	Quality Control	

 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)

Relative Error Ratio (Radiochemistry)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

RER

Eurofins Midland

4

5

Case Narrative

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 880-22254-1 SDG: 03E1558138

Job ID: 880-22254-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-22254-1

Receipt

The sample was received on 12/2/2022 2:37 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-41297/1-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

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

Client Sample Results

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5

Job ID: 880-22254-1 SDG: 03E1558138

Client Sample ID: SS03

Project/Site: Remuda 100 CTB

Client: Ensolum

Matrix: Solid

Lab Sample ID: 880-22254-1

Date Collected: 12/02/22 14:37 Date Received: 12/02/22 14:37

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/07/22 09:16	12/07/22 19:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/07/22 09:16	12/07/22 19:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/07/22 09:16	12/07/22 19:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/07/22 09:16	12/07/22 19:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/07/22 09:16	12/07/22 19:00	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/07/22 09:16	12/07/22 19:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			12/07/22 09:16	12/07/22 19:00	1
1,4-Difluorobenzene (Surr)	82		70 - 130			12/07/22 09:16	12/07/22 19:00	1
Method: TAL SOP Total BTEX - 1	Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/08/22 09:37	1
Method: SW846 8015 NM - Diese	al Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/09/22 20:41	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		12/07/22 15:29	12/09/22 19:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		12/07/22 15:29	12/09/22 19:40	1
C10-C28)	<10.0		49.9	m a ll a		12/07/22 15:29	12/00/22 10:40	1
Oll Range Organics (Over C28-C36)	<49.9	0	49.9	mg/Kg		12/07/22 15.29	12/09/22 19:40	I
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			12/07/22 15:29	12/09/22 19:40	1
o-Terphenyl	105		70 - 130			12/07/22 15:29	12/09/22 19:40	1
Method: MCAWW 300.0 - Anions	s, Ion Chromato	ography - So	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Midland

Released to Imaging: 4/26/2023 10:00:33 AM

Prep Type: Total/NA

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

atrix:	Solid	

				Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)		5
880-22254-1	SS03	87	82	·	
880-22352-A-1-D MS	Matrix Spike	102	114		6
880-22352-A-1-E MSD	Matrix Spike Duplicate	102	119		
LCS 880-40641/1-A	Lab Control Sample	97	111		
LCSD 880-40641/2-A	Lab Control Sample Dup	96	116		
MB 880-40641/5-A	Method Blank	82	100		8
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				9
DFBZ = 1,4-Difluoroben	zene (Surr)				

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

Matrix: Solid Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) Lab Sample ID **Client Sample ID** (70-130) 880-22249-A-1-C MS Matrix Spike 92 89 880-22249-A-1-D MSD Matrix Spike Duplicate 94 89 880-22254-1 SS03 105 103 LCS 880-41297/2-A Lab Control Sample 92 95 LCSD 880-41297/3-A Lab Control Sample Dup 88 91 MB 880-41297/1-A Method Blank 102 140 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

Page 180 of 219
Method: 8021B - Volatile Organic Compounds (GC)

Project/Site: Remuda 100 CTB

Matrix: Solid Analysis Batch: 41222

Client: Ensolum

Analysis Batch: 41222							Ртер Бассі	1. 4004 1
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			11/29/22 09:16	12/07/22 11:40	1
1,4-Difluorobenzene (Surr)	100		70 - 130			11/29/22 09:16	12/07/22 11:40	1

Lab Sample ID: LCS 880-40641/1-A Matrix: Solid

Analysis Batch: 41222

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09342		mg/Kg		93	70 - 130	
Toluene	0.100	0.08359		mg/Kg		84	70 - 130	
Ethylbenzene	0.100	0.07983		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	0.200	0.1630		mg/Kg		82	70 - 130	
o-Xylene	0.100	0.08217		mg/Kg		82	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-40641/2-A

Matrix: Solid

Analysis Batch: 41222							Prep	Batch:	40641
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1165		mg/Kg		117	70 - 130	22	35
Toluene	0.100	0.09996		mg/Kg		100	70 - 130	18	35
Ethylbenzene	0.100	0.09697		mg/Kg		97	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.1952		mg/Kg		98	70 - 130	18	35
o-Xylene	0.100	0.09498		mg/Kg		95	70 - 130	14	35
1.050	1000								

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 40641

Eurofins	Midland

Page 181 of 219

QC Sample Results

Project/Site: Remuda 100 CTB

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

Matrix: Solid	1-A								(Client Sa	mple ID: Met	thod	Blank
											Prep Typ		
Analysis Batch: 41416											Prep Ba		
	1	ΜВ	МВ										
Analyte	Res	sult	Qualifier	RL		Unit		D	Pre	epared	Analyzed		Dil Fac
Gasoline Range Organics	<5	0.0	U	50.0		mg/K	g	_	12/07	//22 15:29	12/09/22 09:4	.9	1
(GRO)-C6-C10													
Diesel Range Organics (Over	<5	0.0	U	50.0		mg/K	g		12/07	/22 15:29	12/09/22 09:4	.9	1
C10-C28) Oll Range Organics (Over C28-C36)	-5	0.0		50.0		mg/K	a		12/07	/22 15:29	12/09/22 09:4	0	1
On Mange Organics (Over 020-030)	-5	0.0	0	50.0		iiig/it	9		12/07	122 13.29	12/03/22 09.4	9	1
	1	MB	MB										
Surrogate	%Recov	ery	Qualifier	Limits					Pre	epared	Analyzed		Dil Fac
1-Chlorooctane	1	102		70 - 130					12/07	7/22 15:29	12/09/22 09:4	19	1
o-Terphenyl	1	140	S1+	70 - 130					12/07	7/22 15:29	12/09/22 09:4	19	1
Lab Sample ID: LCS 880-41297	/ <mark>2-A</mark>							с	lient	Sample I	D: Lab Cont	rol Sa	ample
Matrix: Solid											Prep Typ		
Analysis Batch: 41416											Prep Ba		
-				Spike	LCS	LCS					• %Rec		
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	890.6		mg/Kg			89	70 - 130		
(GRO)-C6-C10													
Diesel Range Organics (Over				1000	865.8		mg/Kg			87	70 - 130		
C10-C28)													
	LCS I	LCS											
Surrogate	%Recovery	Quali	fier	Limits									
1-Chlorooctane	92												
				70 - 130									
o-Terphenyl	95			70 ₋ 130 70 - 130									
o-Terphenyl	95												
o-Terphenyl Lab Sample ID: LCSD 880-4129							CI	ient	Samj	ple ID: La	ab Control S	ampl	e Dup
							CI	ient	Samj	ple ID: La	ab Control S Prep Typ		
Lab Sample ID: LCSD 880-4129							CI	ient	Samj	ple ID: La		e: To	tal/NA
Lab Sample ID: LCSD 880-4129 Matrix: Solid					LCSD	LCSD	CI	ient	Samj	ple ID: La	Prep Typ	e: To	tal/NA
Lab Sample ID: LCSD 880-4129 Matrix: Solid				70 - 130		LCSD Qualifier	CI	ient	Samı D	ple ID: La %Rec	Prep Typ Prep Ba %Rec	e: To	tal/NA 41297
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416				70 - 130 Spike				ient			Prep Typ Prep Ba %Rec	e: To itch:	tal/NA 41297 RPD
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10				70 - 130 Spike Added 1000	Result 837.9		Unit mg/Kg	ient		%Rec	Prep Type Prep Ba %Rec Limits 70 - 130	e: To atch: RPD 6	tal/NA 41297 RPD Limit 20
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over				70 - 130 Spike Added	Result		Unit	ient		%Rec	Prep Typ Prep Ba %Rec Limits	e: To itch: RPD	tal/NA 41297 RPD Limit
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10				70 - 130 Spike Added 1000	Result 837.9		Unit mg/Kg	ient		%Rec	Prep Type Prep Ba %Rec Limits 70 - 130	e: To atch: RPD 6	tal/NA 41297 RPD Limit 20
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		LCSD		70 - 130 Spike Added 1000	Result 837.9		Unit mg/Kg	ient		%Rec	Prep Type Prep Ba %Rec Limits 70 - 130	e: To atch: RPD 6	tal/NA 41297 RPD Limit 20
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	97/3-A			70 - 130 Spike Added 1000	Result 837.9		Unit mg/Kg	ient		%Rec	Prep Type Prep Ba %Rec Limits 70 - 130	e: To atch: RPD 6	tal/NA 41297 RPD Limit 20
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	07/3-A			70 - 130 Spike Added 1000	Result 837.9		Unit mg/Kg	ient		%Rec	Prep Type Prep Ba %Rec Limits 70 - 130	e: To atch: RPD 6	tal/NA 41297 RPD Limit 20
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	D7/3-A LCSD I %Recovery (70 - 130 Spike Added 1000 1000 Limits	Result 837.9		Unit mg/Kg	ient		%Rec	Prep Type Prep Ba %Rec Limits 70 - 130	e: To atch: RPD 6	tal/NA 41297 RPD Limit 20
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	27/3-A LCSD 1 %Recovery 0 88 91	Quali	fier	70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 837.9		Unit mg/Kg	ient		%Rec	Prep Type Prep Ba %Rec Limits 70 - 130	e: To atch: RPD 6	tal/NA 41297 RPD Limit 20
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ior Lab Sample ID: MB 880-40994/	27/3-A LCSD I %Recovery 0 88 91 Chromato	Quali	fier	70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 837.9		Unit mg/Kg	ient	<u>D</u>	%Rec	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130	e: Tor ttch: RPD 6 0 thod	tal/NA 41297 RPD Limit 20 20 20 Blank
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ior Lab Sample ID: MB 880-40994/ Matrix: Solid	27/3-A LCSD I %Recovery 0 88 91 Chromato	Quali	fier	70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 837.9		Unit mg/Kg	ient	<u>D</u>	%Rec	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130	e: Tor ttch: RPD 6 0 thod	tal/NA 41297 RPD Limit 20 20 20 Blank
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ior Lab Sample ID: MB 880-40994/	27/3-A LCSD I %Recovery 0 88 91 Chromato	Quali	fier	70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 837.9		Unit mg/Kg	ient	<u>D</u>	%Rec	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130	e: Tor ttch: RPD 6 0 thod	tal/NA 41297 RPD Limit 20 20 20 Blank
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ior Lab Sample ID: MB 880-40994/ Matrix: Solid	D7/3-A LCSD L %Recovery 0 88 91 D Chromato 1-A	Qualit o gra MB	nphy MB	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 837.9		Unit mg/Kg		<u>D</u>	%Rec	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130	e: Tor ttch: RPD 6 0 thod	tal/NA 41297 RPD Limit 20 20 20 Blank oluble
Lab Sample ID: LCSD 880-4129 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ior Lab Sample ID: MB 880-40994/ Matrix: Solid	D7/3-A LCSD L %Recovery 0 88 91 D Chromato 1-A Res	Qualit o gra MB	nphy MB Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 837.9		Unit mg/Kg mg/Kg	<u>D</u>	_ <u>D</u> _	%Rec	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130	e: Tor ttch: RPD 6 0 thod	tal/NA 41297 RPD Limit 20 20 20 Blank

5

Job ID: 880-22254-1

SDG: 03E1558138

Released to Imaging: 4/26/2023 10:00:33 AM

QC Sample Results

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 880-22254-1 SDG: 03E1558138

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-40994/2-A Matrix: Solid					Client	Sample	ID: Lab Co Prep	ontrol Sa Type: Se	
Analysis Batch: 41276							~-		
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	262.5		mg/Kg		105	90 - 110		
 Lab Sample ID: LCSD 880-40994/3-A				Clier	nt Sam	nple ID: I	Lab Contro	I Sampl	e Dup
Matrix: Solid							Prep	Type: So	oluble
Analysis Batch: 41276									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Analyte	Audeu	Rooun	quannoi	•		/			Linne

Eurofins Midland

Received by OCD: 12/14/2022 8:57:08 AM

QC Association Summary

Client: Ensolum Project/Site: Remuda 100 CTB

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Job ID: 880-22254-1 SDG: 03E1558138

GC VOA

Prep Batch: 40641

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-22254-1	SS03	Total/NA	Solid	5035	
MB 880-40641/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40641/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40641/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
nalysis Batch: 41222					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-22254-1	SS03	Total/NA	Solid	8021B	40642
MB 880-40641/5-A	Method Blank	Total/NA	Solid	8021B	40641
LCS 880-40641/1-A	Lab Control Sample	Total/NA	Solid	8021B	40642
LCSD 880-40641/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40641
nalysis Batch: 41328	l i i i i i i i i i i i i i i i i i i i				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-22254-1	SS03	Total/NA	Solid	Total BTEX	
iC Semi VOA					
rep Batch: 41297					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
380-22254-1	SS03	Total/NA	Solid	8015NM Prep	
MB 880-41297/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41297/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41297/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
nalysis Batch: 41416					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-22254-1	SS03	Total/NA	Solid	8015B NM	41297
MB 880-41297/1-A	Method Blank	Total/NA	Solid	8015B NM	41297
LCS 880-41297/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41297
LCSD 880-41297/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41297
nalysis Batch: 41509					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-22254-1	SS03	Total/NA	Solid	8015 NM	
IPLC/IC					
each Batch: 40994					
	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
Lab Sample ID	•		Solid	DI Leach	
Lab Sample ID	SS03	Soluble	Colla		
Lab Sample ID 880-22254-1	•	Soluble Soluble	Solid	DI Leach	
Lab Sample ID 880-22254-1 MB 880-40994/1-A	SS03				
Lab Sample ID 880-22254-1 MB 880-40994/1-A LCS 880-40994/2-A	SS03 Method Blank	Soluble	Solid	DI Leach	
Lab Sample ID 880-22254-1 MB 880-40994/1-A LCS 880-40994/2-A LCSD 880-40994/3-A malysis Batch: 41276	SS03 Method Blank Lab Control Sample Lab Control Sample Dup	Soluble Soluble	Solid Solid	DI Leach DI Leach	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22254-1	SS03	Soluble	Solid	300.0	40994
MB 880-40994/1-A	Method Blank	Soluble	Solid	300.0	40994
LCS 880-40994/2-A	Lab Control Sample	Soluble	Solid	300.0	40994
LCSD 880-40994/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40994

Eurofins Midland

Released to Imaging: 4/26/2023 10:00:33 AM

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12/9/2022
```

Client: Ensolum Project/Site: Remuda 100 CTB

Client Sample ID: SS03 Date Collected: 12/02/22 14:37

Date Received: 12/02/22 14:37

-	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			40641	MNR	EET MID	12/07/22 09:16
Total/NA	Analysis	8021B		1	41222	MNR	EET MID	12/07/22 19:00
Total/NA	Analysis	Total BTEX		1	41328	SM	EET MID	12/08/22 09:37
Total/NA	Analysis	8015 NM		1	41509	AJ	EET MID	12/09/22 20:41
Total/NA	Prep	8015NM Prep			41297	DM	EET MID	12/07/22 15:29
Total/NA	Analysis	8015B NM		1	41416	AJ	EET MID	12/09/22 19:40
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	СН	EET MID	12/09/22 15:54

Laboratory References:

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

Eurofins Midland

Released to Imaging: 4/26/2023 10:00:33 AM

 Job ID: 880-22254-1

 SDG: 03E1558138

 Lab Sample ID: 880-22254-1

 Matrix: Solid

 Prepared

 or Analyzed

 12/07/22 09:16

 12/07/22 19:00

 12/08/22 09:37

 12/09/22 20:41

 12/07/22 19:40

9

		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: Remuda 1	00 CTB			Job ID: 880-22254-1 SDG: 03E1558138	2
Laboratory: Eurofi Unless otherwise noted, all a		ry were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
Texas The following analytes	are included in this repo	NELAP rt, but the laboratory is not certifi	T104704400-22-24 ied by the governing authority. This list ma	06-30-23 ay include analytes for which	5
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
					8
					9
					10
					12
					13

Eurofins Midland

.

Method Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 880-22254-1

Nethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
lotal BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
00.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

SDG: 03E1558138

5
8
9
11
12

13

Sample Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 880-22254-1 SDG: 03E1558138

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22254-1	SS03	Solid	12/02/22 14:37	12/02/22 14:37

Revised Date: 08/25/2020 Rev. 2020.2							
		6					5
		4			C		3
		2	12-2-22 14:37		17	5	
Date/Time	e) Received by (Signature)	Relinquished by (Signature)	Date/Time)	Received by (Signature)	(Signature)	Rélipyuished by (1)
	iless previously negotiated.	or Euroms 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	Eurofins Xenco, but not analy	or each sample submitted to	each project and a charge of \$5 f	irge of \$85.00 will be applied to	of Eurotins Xenco. A minimum cha
	and conditions and the control	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	ofins Xenco, its affiliates and s nses incurred by the client if s	r from client company to Euri sibility for any losses or expe	s constitutes a valid purchase orde s and shall not assume any respor	and relinquishment of samples able only for the cost of sample	Notice: Signature of this document of service. Eurofins Xenco will be li
747	Hg 1631/2451/7470,	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se	Sb As Ba Be Cd C	TCLP / SPLP 6010 8RCRA	rzed TCLP / SF	Metal(s) to be analy	Circle Method(s) and Metal(s) to be analyzed
U V Zn	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr TI Sn L	Cr Co Cu Fe Pb	Al Sb As Ba Be B Cd Ca	Texas 11	8RCRA 13PPM	200.8 / 6020:	Total 200.7 / 6010
_1	901						
Conteri							
				and the second			
P2226346738	NAPI) 					
dent #:	Inch		XXX	0.5. 6. 1	arei repopi	S I	2000
Sample Comments	Sa		CI B-	*		Matrix	Sample Identification
NaOH+Ascorbic Acid SAPC	NaOH+A		<u>110</u> ГЕ, РН	Grah/ #	Date Time		
Zn Acetate+NaUH Zn	L L L L L L L L L L L L L L L L L L L			2.8	Temperature Reading	Yes No N/A	Sample Custody Seals.
	880-22254 Chain of Custody		de		Correction Factor	NO N/A	Course Custody Seals.
			2		Inermometer ID	NO	Cooles Cristo de Carle
				(Yes No	Yes No Wet Ice	Blank	Sampler Deceived Intert
Чà					the lab, if rece		PO #
				TAT starts the day received by		Mundigen abouts	ler's Name:
					9420 Due Date	32.2.1108, -10394295	Project Location
	None			Rush Pres.	Routine	351558138	Project Number 0
Preservative Codes		ANALYSIS REQUEST		Turn Around		Remuda 100 C	Project Name
Other	Deliverables EDD ADaPT	m wown	obelill@ensolum com	60	352 Email	404 854 0052	Phone
	Reporting Level II Level III PST/UST	•	Carisbad	City, State ZIP-	, 02203	WN PPOSTOR	City State ZIP
[ਰੂ	Greene St	3104 E	Address	100	BURL North P:	Address.
	Program: UST/PST PRP Brownfields	\sim	XTO F	Company Name	•	Ensolum, LUC	Company Name
	ğ	r Green	Gametr	Bill to (if different)		ning wag	Project Manager
e of	www.xenco.com Page.						
x		NM (575) 988-3199	Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199	Hobbs, NM (
		5, 17 (210) 503-5034	015) 505-2442 Jubback 7			Xenco	
かりて	Minut Ordar Nin.	7 (214) 902-0300 7 TV 17171 500-2227	Midland. TX (432) 704-5440 San Antonio TX (214) 902-0300	וזטטטנטוז, נא Midland. TX (4	Environment Testing	Environr	•

eurofins.

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Environment Testing

Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0200 Midland, TX (432) 704-5440 San Antronio TX (710) 509-333

14

Job Number: 880-22254-1 SDG Number: 03E1558138

List Source: Eurofins Midland

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 22254 List Number: 1

Creator:	Kramer,	Jessica

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.	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	N/A	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/9/2022 7:47:58 PM

JOB DESCRIPTION

Remuda 100 CTB SDG NUMBER 03E15581358

JOB NUMBER

880-22255-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701





Received by OCD: 12/14/2022 8:57:08 AM

Eurofins Midland

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

RAMER

Generated 12/9/2022 7:47:58 PM

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

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

Laboratory Job ID: 880-22255-1 SDG: 03E15581358

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Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

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	Definitions/Glossary		
Client: Ensolum Project/Site: Re	n emuda 100 CTB	Job ID: 880-22255-1 SDG: 03E15581358	
Qualifiers			
GC VOA			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA			Ę
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
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.		
<u></u>	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 PRES	Practical Quantitation Limit Procumptive		
QC	Presumptive 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

Eurofins Midland

4

5

Job ID: 880-22255-1 SDG: 03E15581358

Job ID: 880-22255-1

Client: Ensolum

Laboratory: Eurofins Midland

Project/Site: Remuda 100 CTB

Narrative

Job Narrative 880-22255-1

Receipt

The sample was received on 12/2/2022 2:37 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-41297/1-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

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

Client Sample Results

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Job ID: 880-22255-1 SDG: 03E15581358

Client Sample ID: SS05 Date Collected: 12/02/22 13:25

Date Received: 12/02/22 14:37

Project/Site: Remuda 100 CTB

Client: Ensolum

Lab Sample ID: 880-22255-1 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/07/22 09:16	12/07/22 19:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/07/22 09:16	12/07/22 19:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/07/22 09:16	12/07/22 19:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/07/22 09:16	12/07/22 19:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/07/22 09:16	12/07/22 19:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/07/22 09:16	12/07/22 19:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			12/07/22 09:16	12/07/22 19:20	1
1,4-Difluorobenzene (Surr)	103		70 - 130			12/07/22 09:16	12/07/22 19:20	1
Method: TAL SOP Total BTEX -	Total BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/08/22 09:37	1
Method: SW846 8015 NM - Dies Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
IOTALIPH	<49.9	U	49.9	mg/Kg			12/09/22 20:41	1
				mg/Kg				
Method: SW846 8015B NM - Die	sel Range Orga			mg/Kg Unit	 D	Prepared		
Method: SW846 8015B NM - Die Analyte	sel Range Orga	nics (DRO) Qualifier	(GC)		D	Prepared 12/07/22 15:29	12/09/22 20:41	1
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	sel Range Orga Result	nics (DRO) Qualifier	(GC) RL	Unit	D	·	12/09/22 20:41 Analyzed	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result	n <mark>ics (DRO)</mark> Qualifier U	(GC) RL	Unit	D	·	12/09/22 20:41 Analyzed	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	unics (DRO) Qualifier U	(GC) <u>RL</u> 49.9 49.9	Unit mg/Kg mg/Kg	<u>D</u>	12/07/22 15:29 12/07/22 15:29	Analyzed 12/09/22 20:41 Analyzed 12/09/22 20:00 12/09/22 20:00	1 Dil Fac 1
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	unics (DRO) Qualifier U	(GC) <u>RL</u> 49.9	Unit mg/Kg	D	12/07/22 15:29	12/09/22 20:41 Analyzed 12/09/22 20:00	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9	unics (DRO) Qualifier U U U	(GC) <u>RL</u> 49.9 49.9 49.9 Limits	Unit mg/Kg mg/Kg	D	12/07/22 15:29 12/07/22 15:29	Analyzed 12/09/22 20:41 Analyzed 12/09/22 20:00 12/09/22 20:00	1 Dil Fac 1
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	sel Range Orga <u>Result</u> <49.9 <49.9 <49.9	unics (DRO) Qualifier U U U	(GC) <u>RL</u> 49.9 49.9 49.9	Unit mg/Kg mg/Kg	D	12/07/22 15:29 12/07/22 15:29 12/07/22 15:29	Analyzed 12/09/22 20:41 Analyzed 12/09/22 20:00 12/09/22 20:00 12/09/22 20:00	1 Dil Fac 1 1
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	esel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery	unics (DRO) Qualifier U U U	(GC) <u>RL</u> 49.9 49.9 49.9 Limits	Unit mg/Kg mg/Kg	<u>D</u>	12/07/22 15:29 12/07/22 15:29 12/07/22 15:29 Prepared	12/09/22 20:41 Analyzed 12/09/22 20:00 12/09/22 20:00 12/09/22 20:00 12/09/22 20:00 Analyzed	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Sel Range Orga Result <49.9	Qualifier U U U Qualifier	(GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130	Unit mg/Kg mg/Kg	D	12/07/22 15:29 12/07/22 15:29 12/07/22 15:29 Prepared 12/07/22 15:29	Analyzed 12/09/22 20:41 Analyzed 12/09/22 20:00 12/09/22 20:00 12/09/22 20:00 Analyzed 12/09/22 20:00	Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anions Analyte	sel Range Orga <u>Result</u> <49.9 <49.9 <49.9 <49.9 <49.9 %Recovery 103 107 s, lon Chromato	Qualifier U U U Qualifier	(GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130	Unit mg/Kg mg/Kg	D	12/07/22 15:29 12/07/22 15:29 12/07/22 15:29 Prepared 12/07/22 15:29	Analyzed 12/09/22 20:41 Analyzed 12/09/22 20:00 12/09/22 20:00 12/09/22 20:00 Analyzed 12/09/22 20:00	Dil Fac

Eurofins Midland

Released to Imaging: 4/26/2023 10:00:33 AM

Client: Ensolum Project/Site: Remuda 100 CTB

Job ID: 880-22255-1 SDG: 03E15581358

Prep Type: Total/NA

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Method: 8021B - Volatile Organic Compounds (GC)

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-22255-1	SS05	102	103		
880-22352-A-1-D MS	Matrix Spike	102	114		6
880-22352-A-1-E MSD	Matrix Spike Duplicate	102	119		
LCS 880-40641/1-A	Lab Control Sample	97	111		
LCSD 880-40641/2-A	Lab Control Sample Dup	96	116		
MB 880-40641/5-A	Method Blank	82	100		8
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				9

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) Lab Sample ID **Client Sample ID** (70-130) 880-22249-A-1-C MS Matrix Spike 92 89 880-22249-A-1-D MSD Matrix Spike Duplicate 94 89 880-22255-1 SS05 107 103 LCS 880-41297/2-A Lab Control Sample 92 95 LCSD 880-41297/3-A Lab Control Sample Dup 88 91 MB 880-41297/1-A Method Blank 102 140 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum

Job ID: 880-22255-1 SDG: 03E15581358

Project/Site: Remuda 100 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 41222							Prep Type: 1 Prep Batch	
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			11/29/22 09:16	12/07/22 11:40	1
1,4-Difluorobenzene (Surr)	100		70 - 130			11/29/22 09:16	12/07/22 11:40	1

Lab Sample ID: LCS 880-40641/1-A Matrix: Solid

Analysis Batch: 41222

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09342		mg/Kg		93	70 - 130	
Toluene	0.100	0.08359		mg/Kg		84	70 - 130	
Ethylbenzene	0.100	0.07983		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	0.200	0.1630		mg/Kg		82	70 - 130	
o-Xylene	0.100	0.08217		mg/Kg		82	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-40641/2-A

Matrix: Solid

Analysis Batch: 41222							Prep	Batch:	40641
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1165		mg/Kg		117	70 - 130	22	35
Toluene	0.100	0.09996		mg/Kg		100	70 - 130	18	35
Ethylbenzene	0.100	0.09697		mg/Kg		97	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.1952		mg/Kg		98	70 - 130	18	35
o-Xylene	0.100	0.09498		mg/Kg		95	70 - 130	14	35
I CSD I	CSD								

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40641

Prep Type: Total/NA

QC Sample Results

Project/Site: Remuda 100 CTB

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

Lab Sample ID: MB 880-41297	/1 -A									Client Sa	mple ID: M	ethod	Blank
Matrix: Solid											Prep Ty		
Analysis Batch: 41416											Prep E	-	
	Ν	ив м	МВ										
Analyte	Res	ult C	Qualifier	RL		Unit		D	Pr	repared	Analyze	d	Dil Fa
Gasoline Range Organics	<50	0.0 L	U	50.0		mg/l	ζg	_	12/07	7/22 15:29	12/09/22 09	9:49	
(GRO)-C6-C10													
Diesel Range Organics (Over	<50	0.0 L	U	50.0		mg/l	ζg		12/07	7/22 15:29	12/09/22 09	9:49	
C10-C28)													
Oll Range Organics (Over C28-C36)	<50	0.0 L	U	50.0		mg/l	ξg		12/07	7/22 15:29	12/09/22 09	9:49	
	/	ив и	MB										
Surrogate	%Recove		Qualifier	Limits					Pi	repared	Analyze	d	Dil Fa
1-Chlorooctane		02		70 - 130						7/22 15:29	12/09/22 09		
o-Terphenyl		40 5	S1+	70 - 130						7/22 15:29	12/09/22 09		
Lab Sample ID: LCS 880-4129	7/2-A							С	lient	Sample	ID: Lab Cor	ntrol S	ample
Matrix: Solid										-	Prep Ty		
Analysis Batch: 41416											Prep E		
-				Spike	LCS	LCS					%Rec		
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	890.6		mg/Kg			89	70 - 130		-
(GRO)-C6-C10													
				1000	865.8		mg/Kg			87	70 - 130		
Diesel Range Organics (Over													
	LCS L	.cs											
C10-C28)		.CS Qualifi	fier	Limits									
Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane			fier	Limits 70 - 130									
C10-C28) Surrogate 1-Chlorooctane	%Recovery		fier										
C10-C28) Surrogate 1-Chlorooctane	%Recovery 92		fier	70 - 130									
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 92 95		fier	70 - 130			CI	ient	Sam	ple ID: La	ab Control	Sampl	le Dup
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412	%Recovery 92 95		fier	70 - 130			CI	ient	Sam	ple ID: La	ab Control Prep Ty		
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid	%Recovery 92 95		fier	70 - 130			СІ	ient	Sam	ple ID: La		pe: To	tal/NA
C10-C28) Surrogate	%Recovery 92 95		fier	70 - 130	LCSD	LCSD	CI	ient	Sam	ple ID: La	Prep Ty	pe: To	tal/NA 41297
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416	%Recovery 92 95		fier	70 - 130 70 - 130		LCSD Qualifier	CI Unit	ient	Sam	ple ID: La %Rec	Prep Ty Prep E	pe: To	tal/NA 41297 RPE
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid	%Recovery 92 95		fier	70 - 130 70 - 130 Spike				ient		-	Prep Ty Prep E %Rec	pe: To Batch:	tal/NA 41297 RPC Limi
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10	%Recovery 92 95		fier	70 - 130 70 - 130 Spike Added 1000	Result 837.9		_ <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 6	tal/N/ 41297 RPI Limi
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 92 95		fier	70 - 130 70 - 130 Spike Added	Result		Unit	ient		%Rec	Prep Ty Prep E %Rec Limits	RPD	tal/N/ 41297 RPI Limi 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery G 92 95		fier	70 - 130 70 - 130 Spike Added 1000	Result 837.9		_ <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 6	tal/N/ 41297 RPI Limi 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Analyte	%Recovery G 92 95	Qualif		70 - 130 70 - 130 Spike Added 1000	Result 837.9		_ <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 6	tal/N/ 41297 RPI Limi 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<u>%Recovery</u> 92 95 97/3-A	Qualifi		70 - 130 70 - 130 Spike Added 1000	Result 837.9		_ <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 6	tal/N/ 41297 RPI Limi 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<u>%Recovery</u> 92 95 97/3-A 	Qualifi		70 - 130 70 - 130 Spike Added 1000	Result 837.9		_ <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 6	tal/NA 41297 RPE Limi 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	<u>%Recovery</u> 92 95 97/3-A LCSD L _%Recovery 9	Qualifi		70 - 130 70 - 130 Spike Added 1000 1000	Result 837.9		_ <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 6	tal/NA 41297 RPE Limi 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	<u>%Recovery</u> 92 95 97/3-A <u>LCSD L</u> <u>%Recovery</u> 6 88 91	Qualifi .CSD Qualifi	fier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130	Result 837.9		_ <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 6	tal/N/ 4129 RP Lim 2
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	<u>%Recovery</u> 92 95 97/3-A <u>LCSD L</u> <u>%Recovery</u> 6 88 91	Qualifi .CSD Qualifi	fier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130	Result 837.9		_ <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 6	tal/N/ 4129 RP Lim 2
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, lo	<u>%Recovery</u> 2 92 95 95 97/3-A <u>LCSD L</u> <u>%Recovery</u> 2 88 91 n Chromato	Qualifi .CSD Qualifi	fier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130	Result 837.9		_ <mark>Unit</mark> mg/Kg	ient	D .	%Rec 84 86	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 6 0	tal/N/ 4129 RP Lim 2 2
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, lo Lab Sample ID: MB 880-40994	<u>%Recovery</u> 2 92 95 95 97/3-A <u>LCSD L</u> <u>%Recovery</u> 2 88 91 n Chromato	Qualifi .CSD Qualifi	fier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130	Result 837.9		_ <mark>Unit</mark> mg/Kg	ient	D .	%Rec 84 86	Prep Ty %Rec Limits 70 - 130 70 - 130	pe: To Batch: RPD 6 0	tal/NJ 4129 RP Lim 2 2 8
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, lo Lab Sample ID: MB 880-40994 Matrix: Solid	<u>%Recovery</u> 2 92 95 95 97/3-A <u>LCSD L</u> <u>%Recovery</u> 2 88 91 n Chromato	Qualifi .CSD Qualifi	fier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130	Result 837.9		_ <mark>Unit</mark> mg/Kg	ient	D .	%Rec 84 86	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: To Batch: RPD 6 0	tal/N/ 4129 RPI Limi 20 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, Io Lab Sample ID: MB 880-40994 Matrix: Solid	<u>%Recovery</u> 92 95 97/3-A <u>LCSD L</u> <u>%Recovery 6</u> 88 91 n Chromato /1-A	Qualifi .CSD Qualifi	fier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130	Result 837.9		_ <mark>Unit</mark> mg/Kg	ient	D .	%Rec 84 86	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: To Batch: RPD 6 0	tal/N/ 41297 RPI Limi 20 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41416 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	<u>%Recovery</u> <u>9</u> 2 95 97/3-A <u>LCSD L</u> <u>%Recovery <u>6</u> 88 91 n Chromato /1-A</u>	Qualifi Qualifi gra	fier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130	Result 837.9		_ <mark>Unit</mark> mg/Kg mg/Kg	D	<u>D</u>	%Rec 84 86	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: To Batch: RPD 6 0	tal/NA 41297 RPD Limit 20 20 Blank

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5

7 8

Job ID: 880-22255-1 SDG: 03E15581358

1

QC Sample Results

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 880-22255-1 SDG: 03E15581358

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-40994/2-A Matrix: Solid					Client	Sample	ID: Lab Co Prep	ontrol Sa Type: Se	
Analysis Batch: 41276							~-		
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	262.5		mg/Kg		105	90 - 110		
 Lab Sample ID: LCSD 880-40994/3-A				Clier	nt Sam	nple ID: I	Lab Contro	I Sampl	e Dup
Matrix: Solid							Prep	Type: So	oluble
Analysis Batch: 41276									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Analyte	Audeu	Rooun	quannoi	•		/			Linne

Eurofins Midland

Received by OCD: 12/14/2022 8:57:08 AM

QC Association Summary

Client: Ensolum Project/Site: Remuda 100 CTB

Job ID: 880-22255-1 SDG: 03E15581358

GC VOA

Prep Batch: 40641

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-22255-1	SS05	Total/NA	Solid	5035	
MB 880-40641/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40641/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40641/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
Analysis Batch: 41222					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22255-1	SS05	Total/NA	Solid	8021B	40641
MB 880-40641/5-A	Method Blank	Total/NA	Solid	8021B	40641
LCS 880-40641/1-A	Lab Control Sample	Total/NA	Solid	8021B	40641
LCSD 880-40641/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40641
Analysis Batch: 41329					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22255-1	SS05	Total/NA	Solid	Total BTEX	
GC Semi VOA					
Prep Batch: 41297					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22255-1	SS05	Total/NA	Solid	8015NM Prep	
MB 880-41297/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41297/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41297/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
Analysis Batch: 41416	i				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22255-1	SS05	Total/NA	Solid	8015B NM	41297
MB 880-41297/1-A	Method Blank	Total/NA	Solid	8015B NM	41297
LCS 880-41297/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41297
LCSD 880-41297/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41297
Analysis Batch: 41510					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22255-1	SS05	Total/NA	Solid	8015 NM	
HPLC/IC					
each Batch: 40994					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-22255-1	SS05	Soluble	Solid	DI Leach	
MB 880-40994/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40994/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40994/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
Analysis Batch: 41276	i				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
880-22255-1		Soluble	Solid	300.0	40994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22255-1	SS05	Soluble	Solid	300.0	40994
MB 880-40994/1-A	Method Blank	Soluble	Solid	300.0	40994
LCS 880-40994/2-A	Lab Control Sample	Soluble	Solid	300.0	40994
LCSD 880-40994/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40994

Eurofins Midland

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Released to Imaging: 4/26/2023 10:00:33 AM

Client: Ensolum Project/Site: Remuda 100 CTB

Client Sample ID: SS05 Date Collected: 12/02/22 13:25

Date Received: 12/02/22 14:37

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			40641	MNR	EET MID	12/07/22 09:16
lotal/NA	Analysis	8021B		1	41222	MNR	EET MID	12/07/22 19:20
Total/NA	Analysis	Total BTEX		1	41329	SM	EET MID	12/08/22 09:37
otal/NA	Analysis	8015 NM		1	41510	AJ	EET MID	12/09/22 20:41
Γotal/NA	Prep	8015NM Prep			41297	DM	EET MID	12/07/22 15:29
otal/NA	Analysis	8015B NM		1	41416	AJ	EET MID	12/09/22 20:00
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
oluble	Analysis	300.0		1	41276	СН	EET MID	12/09/22 16:01

Laboratory References:

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

Eurofins Midland

Released to Imaging: 4/26/2023 10:00:33 AM

 Job ID: 880-22255-1
 1

 SDG: 03E15581358
 2

 Lab Sample ID: 880-22255-1
 3

 Matrix: Solid
 4

Project/Site: Remuda 100 CTB

Laboratory: Eurofins Midland

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

thority	P	rogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-22-24	06-30-23
0,	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v
the agency does not o Analysis Method		Matrix	Analyte	
the agency does not o Analysis Method 8015 NM	ffer certification . Prep Method	Matrix Solid	Analyte Total TPH	

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Job ID: 880-22255-1

SDG: 03E15581358

Eurofins Midland

Method Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 880-22255-1 SDG: 03E15581358

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	EET MID
otal BTEX	Total BTEX Calculation	TAL SOP	EET MID
015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
00.0	Anions, Ion Chromatography	MCAWW	EET MID
035	Closed System Purge and Trap	SW846	EET MID
015NM Prep	Microextraction	SW846	EET MID
I Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: Remuda 100 CTB Job ID: 880-22255-1 SDG: 03E15581358

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22255-1	SS05	Solid	12/02/22 13:25	12/02/22 14:37

Revised Date: 08/25/2020 Rev 2020.2		c					
		n 4	וכיאו				3
		2	12.2.22 111:27		γ	11	
Date/Time) Received by (Signature)	Relinquished by: (Signature)	Date/Time	re)	Received by (Signature)	Signature)	Reynquished by/
	the control eviously negotiated.	or service. Euromis sence 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.	nses incurred by the client if s Eurofins Xenco, but not analy	sonsibility for any losses or expe 5 for each sample submitted to	ples and shall not assume any response of the sector of th	charge of \$85.00 will be applied	of service, Euronns Xenco Will of Eurofins Xenco, A minimum
	S	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	ofins Xenco, its affiliates and s	rder from client company to Eu	oles constitutes a valid purchase o	nent and relinquishment of sam	Notice: Signature of this docum
/7471	Hg 1631/2451/7470	o Cu Pb Mn I	Sb As Ba Be Cd C			Circle Method(s) and Metal(s) to be analyzed	Circle Method(s) ai
U V Zn	Pb Mg Mn Mo Ni K Se Ag SiO, Na Sr TI Sn I	Ca Cr Co Cu Fe Pb Mg M	As Ba Be B Cd	13PPM Texas 11 AI Sb	8RCRA 13P	200.8 / 6020:	Total 200.7 / 6010
	106						
t Center!	Cost						Transfer and a subject to the subject of the subjec
NAPP2226346738	I ANA						
n cident #:	2 4		XX	05 61	140414 1325		CU (C
sample Comments			(E	Comp Cont	Sampled		
			h STI	Denth Grab/ # of	Date	cation Matrix	Sample Identification
NaUH+Ascorbic Acid SAPC	I I I I NaCH+/		ΞX		Corrected Temperature		Total Containers.
	880-22255 Chain of Custody			2.8	Temperature Reading	Yes No N/A	Sample Custody Seals
			de		Correction Factor	Yes No N/A	Cooler Custody Seals:
			<u>s</u>	T.NM.001	Thermometer ID	t: Yes No	Samples Received Intact:
				Yes No	Yes No Wet Ice	Temp Blank.	SAMPLE RECEIPT
				the lab if received by 4.30pm		1	PO #
Tar NO, HN				e day received by		Meredistry 120	
					94295	32.27708-10394295	Project Location
NO DI Water: H-O	None			Rush Code	Rout		Project Number
Preservative Codes		ANALYSIS REQUEST	1	Turn Around	100 CTB / Tur	Kunuda IC	Project Name
Other-	Deliverables EDD ADaPT		6	1 brochill	OUSU Email		Phone
	Reporting Level II Level III PST/UST TRRP	88020	1 Carlsbad,	City State ZIP-	app8 Wr	Ĺ	City State ZIP-
	roj.	St .	3104 E (Address.	Parks how	3122 N3×1 1	Address.
RRC Superfund	Program. UST/PST PRP Brownfields RRC	BANNAY P	XID	Company Name	YC.	prisolum 1	Company Name
S	Work Order Comments	Gamett Carren	- Games	Bill to (if different)		myad wag	Project Manager
eof	www.xenco.com Page						
5		TX (806) 794-1296	EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296	EL Paso, TX (- veico	
	Work Order No:	x (214) 902-0300 5, TX (210) 509-3334	Houston, 1X (281) 240-4200 Dallas 1X (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Houston, 1. Midland, TX (4	Environment Testing		
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13

Chain of Custody

14

Job Number: 880-22255-1 SDG Number: 03E15581358

List Source: Eurofins Midland

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 22255 List Number: 1 Creator: Kramer, Jessica

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.	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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").



APPENDIX E

NMOCD Notifications

Released to Imaging: 4/26/2023 10:00:33 AM

From:	Green, Garrett J
To:	Tacoma Morrissey
Subject:	FW: XTO - Sampling Notification (Week of 11/21/22 - 11/25/22)
Date:	Friday, November 18, 2022 3:38:40 PM

[**EXTERNAL EMAIL**]

From: Green, Garrett J
Sent: Friday, November 18, 2022 8:52 AM
To: 'ocd.enviro@emnrd.nm.gov' <ocd.enviro@emnrd.nm.gov>; 'Bratcher, Michael, EMNRD'
<mike.bratcher@emnrd.nm.gov>; 'Hamlet, Robert, EMNRD' <Robert.Hamlet@emnrd.nm.gov>;
'Harimon, Jocelyn, EMNRD' <Jocelyn.Harimon@emnrd.nm.gov>
Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>
Subject: XTO - Sampling Notification (Week of 11/21/22 - 11/25/22)

All,

XTO plans to complete final sampling activities at the following sites the week of Nov 21, 2022.

- JRU 17 CTB/ nAPP2226628060
- BEU 158 / nAPP2230548752
- Ross Draw 2531 TB FIRE/ nAPP2226646920
- Remuda 100 CTB / nAPP2226346738
- West Brushy Fed 33 1H/ nAPP2228753314
- Ross Draw 3031/ nAPP2227244441

Thank you,

Garrett Green

Environmental Coordinator Delaware Business Unit (575) 200-0729 <u>Garrett.Green@ExxonMobil.com</u>

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



APPENDIX F

Micro-Blaze Safety Data Sheet



1. IDENTIFICATION OF THE SUBSTANCE

Product identifier

Product Name: Product Code: Micro-Blaze® Emergency Liquid Spill Control MBELSC

Recommended use of the chemical and restrictions on use

Recommended Use: Uses advised against: Bioremediation/cleaning Please refer to Product Data Sheet

Details of the supplier of the Safety Data Sheet

Contact Manufacturer:

Information Telephone Number: Emergency Telephone Number: Verde Environmental, Inc. 9223 Eastex Freeway Houston, TX USA 77093 1-713-691-6468 1-800-424-9300 (Chemtrec) 24 hours every day

2. HAZARDS IDENTIFICATION

Classification

Classification of the product is in accordance with 29CFR 1910.1200

Acute toxicity – Oral	Category 5
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

Label elements

Emergency Overview

Warning

Hazard statements May cause an allergic skin reaction Causes serious eye irritation May be harmful if swallowed



Physical State: Liquid

Odor: Slight fermentation odor

Date Issued: 22nd January, 2021

Appearance: Opaque



Precautionary Statements – Prevention

Wear eye/face protection. Wear protective gloves. Avoid breathing dust/fume/gas/mist/vapors/spray.

Precautionary Statements – Response

Eyes	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Skin	IF ON SKIN: Gently wash with plenty of soap and water
Inhalation	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
Ingestion	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Precautionary Statements – Storage

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F

Precautionary Statements – Disposal

Dispose of unused product and container in accordance with all applicable local and regional requirements

Hazards not otherwise classified (HNOC)

Not applicable

Other information

Health Hazard	1
Fire Hazard	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	Weight - %
Water and Proprietary Viable Spore Forming Cultures	> 80
Proprietary blend of Ethoxylated Alcohols and other Organic materials	3-9
Additives	2 - 5

4. FIRST AID MEASURES

First aid measures

Date Issued: 22nd January, 2021



Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes	
Skin Contact	Wash off immediately with soap and plenty of water	
Inhalation	Move to fresh air	
Ingestion	Clean mouth with water and afterwards drink plenty of water	
Most important symptoms and effects, both acute and delayed		
Main symptoms	No information available	
Indication of any immediate medical attention and special treatment needed		

Notes to physician Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Specific Hazards Arising from the Chemical

No information available

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures			
Personal Precautions	Ensure adequate ventilation		
Environmental precautions			
Environmental Precautions	It is not anticipated to be hazardous for the environment		
Methods and material for containment and cleaning up			
Methods for Clean-up	Pick up and transfer to properly labeled containers		
7. HANDLING AND STORAGE			
Precautions for safe handling			
Handling	Handle in accordance with good industrial hygiene and safety practice		



Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place	
Packaging Material	There could be many packaging types for the product. The details are given in other Verde Environmental, Inc. documents	
Incompatible Materials	Strong acids or alkali compounds and strong oxidizing agents may inactivate biological cultures	

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Individual protection measures, such as personal protective equipment

Eye Protection	Avoid contact with eyes
Skin and body protection	No special technical protective measures are necessary
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practices	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State		
Appearance		
Odor		
Odor Threshold		

Property

pH Melting/freezing point Evaporation rate VALUE Flammability (solid, gas) Burning rate 100mm VALUE Vapor pressure Vapor density Specific gravity Water solubility Solubility in other solvents Partition Coefficient (n-octanol/water) Autoignition temperature Decomposition temperature Viscosity of product Viscosity Liquid Tan, Opaque Pleasant (perfume) No information available

Values

7.0 - 8.0
freeze at 0°C/32°F
No information available
Not flammable
No information available
No information available
No information available
99%
No information available



Explosive properties Oxidizing properties

Other Information Softening Point VOC Content Density No information available No information available

No information available No information available No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

<u>Chemical stability</u> Stable under recommended storage conditions

<u>Possibility of Hazardous Reactions</u> None under normal processing

<u>Conditions to avoid</u> Extremes of temperature and direct sunlight

Incompatible materials

Strong acids or alkali compounds and strong oxidizing agents may inactivate biological cultures

Hazardous Decomposition Products

No information available

11. Toxicological Information

Information on likely routes of exposure

Inhalation	There is no data available for this product	
Eye contact	Avoid contact with eyes. Severely irritating to eyes	
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.	
Ingestion	Ingestion may cause stomach discomfort	
Information on toxicological effects		
Symptoms	No information available	

Delayed and immediate effects as well as chronic effects from short and long-term exposure



Sensitization
Mutagenic Effects
Reproductive Effects
Specific target organ systemic toxicity
Aspiration hazard

May cause sensitization of susceptible persons No information available No information available No information available No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Dahnia, acute	Algae, acute	Fish, acute
Proprietary blend of Ethoxylated	EC50 (48 hours): 5-10	EC50 (72 hours): 10- 100 mg/l	LC50: 1-10 mg/l
Alcohols	mg/l		

Persistence/Degradability

The organic components of the product are biodegradable.

Bioaccumulation/Accumulation

Chemical Name	Persistance and degradability	log Pow
Proprietary blend of Ethoxylated	Readily biodegradable (OECD TG	<0
Alcohols	301B	

Other adverse effects

No known effect

13. DISPOSAL CONSIDERA	ΓΙΟΝS	

Waste treatment methods Waste Disposal Method	Dispose of contents/container in accordance with local regulation
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

Transport regulations:	No dangerous goods according to transport regulations No special precautions required
Transport hazard class(es):	N/A
Packing group:	N/A
Environmental hazards:	N/A



15. REGULATORY INFORMATION

International Inventories

Legend: TSCA – United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and 40 CFR Part 372.

No No No No

SARA 311/312 Hazardous

Acute Health Hazard
Chronic Health Hazard
Fire Hazard
Sudden Release of Pressure Hazard
Reactive Hazard

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

State Regulations

<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals

<u>State Right-to-Know</u> <u>U.S. EPA Label Information</u> EPA Pesticide Registration Number

Not Applicable

<u>Canada</u>

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.



16. OTHER INFORMATION

Revision date: Revision Summary 01.22.2021

No information available

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Furthermore, as the conditions of use are beyond the control of Verde Environmental, Inc., it is the responsibility of the customer to determine the conditions of safe use of this preparation.

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	166731
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests to complete final remediation during any future major construction/alteration or final plugging/abandonment, whichever occurs first. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The areas requested for deferral are "BH01" and "BH02". The areas have been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. This is a state site and will require like approval from the State Land Office.	4/26/2023

Action 166731

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