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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2223850551
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			•		•			
Responsible Party Empire New Mexico LLC			Mexico LLC	OGRID				
Contact Name Toby Holland				Contact	Contact Telephone (575) 704-2329			
Contact email tholland@empirepetrocorp.com			.com	Incident	Incident # (assigned by OCD)			
Contact mailing address 2200 S. Utica Place Suite 150 Tulsa, OK 74114			ace Suite 150 Tuls					
			Location	of Release S	Source			
Latitude 32.	.481208		(NAD 83 in dec	Longitude	e103.273891 ecimal places)			
Site Name I	EMSU Satel	lite Battery #10		Site Type	e Battery			
Date Release	Discovered	07/28/2022		API# (if a	applicable)			
Unit Letter	Section	Township	Range	Co	ounty			
F	16	21S	36E	Lea				
	Materia		Nature and	l Volume of	ific justification for the volumes provided below)			
X Crude Oi	1	Volume Release	d (bbls) 110		Volume Recovered (bbls) 0			
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)			
Is the concentration of dissolved chloride produced water >10,000 mg/l?				hloride in the	e Yes No			
Condensate Volume Released (bbls)			d (bbls)		Volume Recovered (bbls)			
☐ Natural Gas Volume Released (Mcf)			d (Mcf)		Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)			Released (provide	e units)	Volume/Weight Recovered (provide units)			
	ke on produc	etion equipment insuids and remove sa		nt. Fluids release	ed to the well pad and surrounding pasture. Equipment was			

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	nAPP2223850551
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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 Greater than 25 bbls released	e responsible party consider this a major release?
X Yes No		
If YES, was immediate n NOR filed online 08/12/		To whom? When and by what means (phone, email, etc)?
	Initi	ial Response
The responsible	party must undertake the following actions im	mediately unless they could create a safety hazard that would result in injury
X The source of the rel	lease has been stopped.	
X The impacted area ha	as been secured to protect human hea	Ith and the environment.
x Released materials h	ave been contained via the use of ber	ms or dikes, absorbent pads, or other containment devices.
	recoverable materials have been remo ed above have <u>not</u> been undertaken, e	
If all the actions describe Per 19.15.29.8 B. (4) NN has begun, please attach	ed above have <u>not</u> been undertaken, e. MAC the responsible party may comm	
Per 19.15.29.8 B. (4) NN has begun, please attach within a lined containme I hereby certify that the inferegulations all operators are public health or the environ failed to adequately investig	MAC the responsible party may comma a narrative of actions to date. If rement area (see 19.15.29.11(A)(5)(a) NN formation given above is true and complete required to report and/or file certain releasement. The acceptance of a C-141 report gate and remediate contamination that po	nence remediation immediately after discovery of a release. If remediation medial efforts have been successfully completed or if the release occurred
Per 19.15.29.8 B. (4) NN has begun, please attach within a lined containme I hereby certify that the inferegulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance	MAC the responsible party may comma a narrative of actions to date. If resent area (see 19.15.29.11(A)(5)(a) Not commation given above is true and complete required to report and/or file certain relement. The acceptance of a C-141 report gate and remediate contamination that po of a C-141 report does not relieve the ope	nence remediation immediately after discovery of a release. If remediation medial efforts have been successfully completed or if the release occurred MAC), please attach all information needed for closure evaluation. The to the best of my knowledge and understand that pursuant to OCD rules and case notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have see a threat to groundwater, surface water, human health or the environment. In
Per 19.15.29.8 B. (4) NN has begun, please attach within a lined containme I hereby certify that the inforcegulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance and/or regulations.	MAC the responsible party may comma a narrative of actions to date. If resent area (see 19.15.29.11(A)(5)(a) Not commation given above is true and complete required to report and/or file certain relement. The acceptance of a C-141 report gate and remediate contamination that po of a C-141 report does not relieve the ope	nence remediation immediately after discovery of a release. If remediation medial efforts have been successfully completed or if the release occurred MAC), please attach all information needed for closure evaluation. The to the best of my knowledge and understand that pursuant to OCD rules and case notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have see a threat to groundwater, surface water, human health or the environment. In the trator of responsibility for compliance with any other federal, state, or local laws
Per 19.15.29.8 B. (4) NN has begun, please attach within a lined containme I hereby certify that the inforegulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Toby H	MAC the responsible party may comma a narrative of actions to date. If resent area (see 19.15.29.11(A)(5)(a) NM formation given above is true and complete required to report and/or file certain relement. The acceptance of a C-141 report gate and remediate contamination that poof a C-141 report does not relieve the ope	nence remediation immediately after discovery of a release. If remediation medial efforts have been successfully completed or if the release occurred MAC), please attach all information needed for closure evaluation. Title: Environmental Coordinator
Per 19.15.29.8 B. (4) NN has begun, please attach within a lined containme I hereby certify that the inforcegulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance and/or regulations. Printed Name: Toby H Signature	MAC the responsible party may comma a narrative of actions to date. If resent area (see 19.15.29.11(A)(5)(a) NM formation given above is true and complete required to report and/or file certain relement. The acceptance of a C-141 report gate and remediate contamination that poof a C-141 report does not relieve the ope	nence remediation immediately after discovery of a release. If remediation medial efforts have been successfully completed or if the release occurred MAC), please attach all information needed for closure evaluation. To the best of my knowledge and understand that pursuant to OCD rules and ease notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have see a threat to groundwater, surface water, human health or the environment. In the prator of responsibility for compliance with any other federal, state, or local laws Title: Environmental Coordinator Date: 8-19-22

	Page 3 of 1	<i>23</i>
Incident ID	nAPP2223850551	İ
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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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well Field data	ls.

Characterization Report Checklist: Each of the following items must be included in the report.
Characterization Report Checkinst. Each of the following tiems must be included in the report.
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
☐ Topographic/Aerial maps
☐ Laboratory data including chain of custody

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

Received by OCD: 10/26/2022 10:12:59 AM State of New Mexico
Page 4 Oil Conservation Division

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I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name: Toby Holland Signature: John Holland email:	Title: Date: 10-25-22. Telephone: 575-704-2329
OCD Only Received by: Jocelyn Harimon	Date:10/26/2022

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Remediation Plan

Remediation Plan Checklist: 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: Toby Holland Title: Signature: Date: 10-25-22. Date: 10-25-22. Telephone: 575-704-2329
OCD Only
Received by: Date: Date:
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved
Signature: Jennifer Nobui Date: 11/22/2022



October 25, 2022

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Remediation Work Plan and Variance Request

EMSU Satellite Battery #10 Lea County, New Mexico Empire New Mexico LLC

NMOCD Incident No: nAPP2223850551

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Empire New Mexico LLC (Empire), presents this Remediation Work Plan and Variance Request for a release at the EMSU Satellite Battery #10 well pad (Site). The Site is associated with oil and gas exploration and production operations and is located on New Mexico State Land in rural Lea County, New Mexico (Figure 1). The proposed work will be performed to remediate impacted soil originating from a broken hose on production equipment at the Site. The Site is located in Unit F, Section 16, Township 21 South, Range 36 East, in Lea County, New Mexico.

SITE BACKGROUND

On July 28, 2022, Empire discovered a 110-barrel (bbl) release of crude oil at the Site. Upon inspection, it was discovered that a broken hose on production equipment had failed, causing the release. The fluids flowed outside of a bermed secondary containment onto the well pad and adjacent dirt roadways and pasture (shown on Photograph 1, Appendix A). Empire retained a contractor to remove standing fluids and saturated soils at the Site. Empire reported the release to the New Mexico Oil Conservation Division (NMOCD) within 24 hours of discovery of the release. Empire also reported the release on a *Release Notification Form C-141* (Form C-141) on August 19, 2022. The NMOCD has assigned the Site Incident Number nAPP2223850551.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As part of the site investigation, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 11 and 12 (19.15.29.11 and 12) of the New Mexico Administrative Code (NMAC). Potential nearby receptors were assessed through desktop reviews of United States Geological Survey (USGS) topographic maps, Federal Emergency Management Administration (FEMA) Geographic Information System (GIS) maps, New Mexico Office of the State Engineer (NMOSE) database, aerial photographs, and site-specific observations. This information is further discussed below.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs). The nearest permitted well with depth to water information is NMOSE permitted well CP-0050 (Appendix B) located approximately 0.47 miles east of the Site. The recorded depth to

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

water obtained from the NMOSE database is 195 feet bgs with a total well depth of 215 feet. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake (Figure 1). No watercourses, wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

Based on the site characterization described above, the following NMOCD Table I Closure Criteria (Closure Criteria) apply to the Site:

- 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 diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kgChloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies for the top 4 feet of soil in areas that will be reclaimed following remediation, per 19.15.29.13.D (1) NMAC

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On August 1, 2022, Ensolum personnel completed a Site visit to evaluate the release extent based on information provide on the Form C-141 and visual observations. Based on the Site reconnaissance, the majority of the released fluids stayed on the well pad and within the adjacent roads to the east and north of the well pad. Small areas of pasture were impacted as fluids migrated off of the well pad and roads, as shown on Figure 2. Six preliminary soil samples (SS01 through SS06) were collected within the release extent at a depth of 0.5 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped using a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

Soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name method of analysis, and immediately place 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 chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results indicated that all concentrations were in compliance with the Table I Closure Criteria; however, chloride concentrations exceeding the reclamation requirement were detected in samples SS03 through SS05, located in off-pad areas. No other exceedances of the reclamation requirement were detected during the preliminary sampling event. Based on these results, additional delineation work was recommended.

On September 20, 2022, additional delineation samples were collected within the release extent to vertically delineate TPH and chloride in soil. Due to proximity of numerous pipelines on the well pad, roads, and pasture, potholes PH01 through PH04 (advanced using a backhoe, Photograph 2, Appendix A) were limited to areas clear of utilities. In order to collect additional samples, a hydrovac truck was used to advance potholes PH05 through PH07 on



Page 3

September 29, 2022. Delineation samples were field screened and collected in the manner described above. Two samples were analyzed from each pothole; one soil sample with the highest field screening result and one soil sample from the terminus of each pothole.

Laboratory analytical results indicate that all concentrations are in compliance with the Table I Closure Criteria; however, soil sample PH03 contained chloride at a concentration exceeding the reclamation requirement at 1-foot bgs. No other exceedances of Closure Criteria or reclamation requirement concentrations were detected during the delineation event. Soil analytical results are summarized in Table 1, with complete laboratory analytical reports included as Appendix C

REMEDIATION WORK PLAN AND VARIANCE REQUEST

Laboratory analytical results have indicated all COC concentrations in preliminary and delineation soil samples are in compliance with the NMOCD Table I Closure Criteria applicable to the Site; however, chloride concentrations exceeding the reclamation requirement are present in the soil to a depth of approximately 1-foot bgs in the vicinity of samples SS03, SS04, SS05, and PH03. In total, the surface area of the release extent in off-pad areas (outlined in orange and blue on Figure 2) measures approximately 27,200 square feet, equating to an estimated volume of 1,000 cubic yards of soil containing chloride concentrations that exceed the reclamation requirements.

To address waste-containing soil as a result of the July 2022 release at the Site, Empire proposes to remove the top 1 foot of waste-containing soil northeast of Site, which is on the east lease road and within the pasture (Figure 2). Excavation work will be conducted with a combination of digging equipment (backhoe and/or track hoe) and hydrovac (where utilities are present). Once waste-containing soil is removed, Empire will collect 5-point composite samples from the excavation floor. Due to the estimated 27,200 square foot areal extent of the waste-containing soil, Empire requests a variance for the frequency of excavation confirmation samples. Empire proposes the frequency of confirmation sampling for the excavation to be decreased from every 200 square feet (approximately 136 samples) to every 500 square feet (approximately 55 samples). The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing prior to collection into the laboratory-provided containers. Because chloride is the only COC exceeding the reclamation requirement, Empire also proposes to omit TPH and BTEX analysis for the confirmation soil samples.

Once waste-containing soil has been removed, excavated areas will be backfilled and recontoured to match the original land surface grade using clean soil. Areas originally vegetated at the Site (in the pasture) will be backfilled with topsoil and reseeded for revegetation.

ON-PAD ADDITIONAL DELINEATION

In order to fully delineate the lateral extent of COCs detected in samples SS01, SS02, and PH01, Empire will advance several additional potholes on and around the well pad. Two samples will be collected and analyzed from each pothole to complete the lateral delineation at the Site; one soil sample with the highest field screening result and one soil sample from the terminus of each pothole. Samples will be submitted collected and submitted for laboratory analysis of TPH, BTEX, and chloride in the manner described above.



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SCHEDULE

Empire will complete the excavation and delineation work within 60 days of NMOCD approval of this Remediation Work Plan and Variance Request. Additionally, Empire will report the results of the remediation and delineation work to the NMOCD within two weeks following receipt of the analytical results.

If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely,

Ensolum, LLC

Stuart Hyde, LG Senior Geologist (970) 903-1607

shyde@ensolum.com

Ashley Ager, MS, PG Principal, Geologist (970) 946-1093 aager@ensolum.com

ashley L. ager

Attachments:

Figure 1: Site Receptor Map

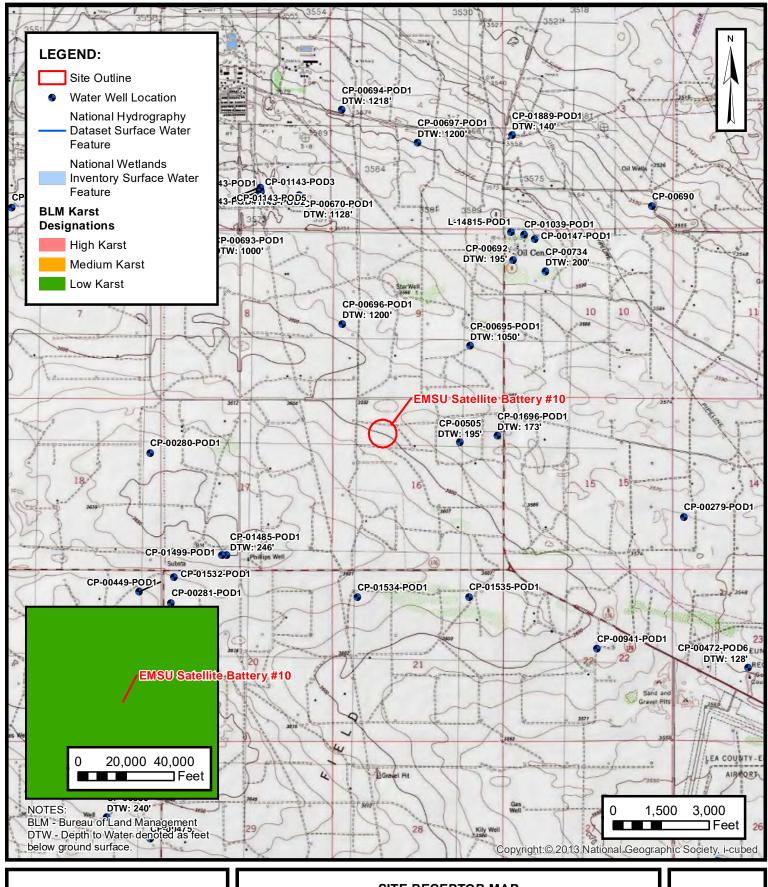
Figure 2: Preliminary and Delineation Soil Sample Locations

Table 1: Soil Sample Analytical Results

Appendix A: **Project Photographs** Appendix B: **NMOSE Well Summary** Appendix C: Laboratory Analytical Reports



Figures



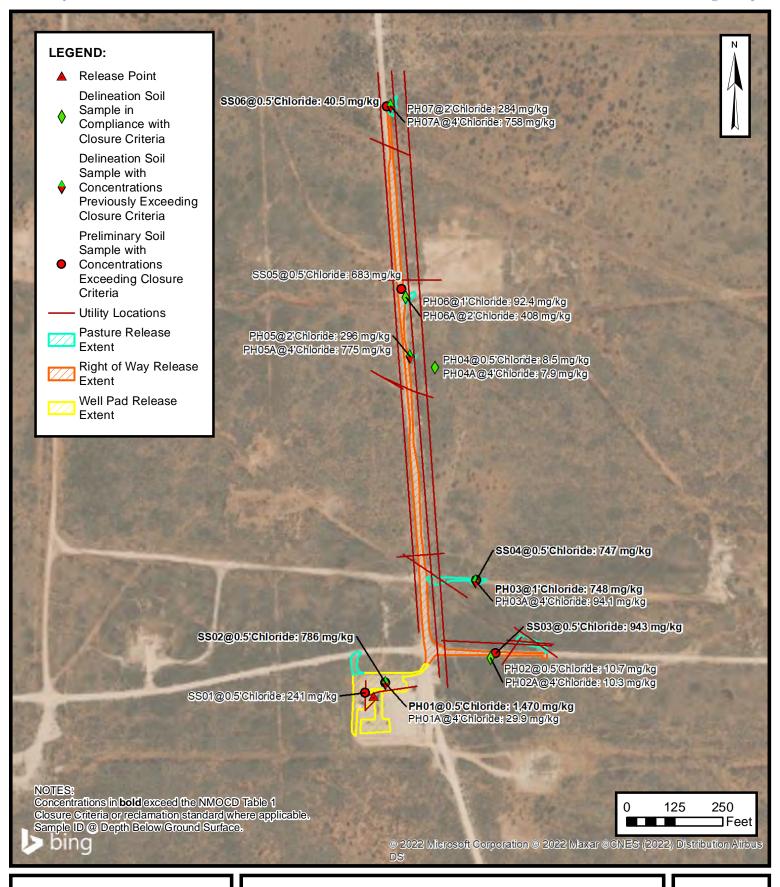


SITE RECEPTOR MAP

EMPIRE NEW MEXICO, LLC EMSU SATELLITE BATTERY #10

Incident Number nAPP2223850551 Unit M Sec 16 T21S R36E Lea County, New Mexico FIGURE

1





PRELIMINARY AND DELINEATION SOIL SAMPLE LOCATIONS

EMPIRE NEW MEXICO, LLC EMSU SATELLITE BATTERY #10

Incident Number nAPP2223850551 Unit M Sec 16 T21S R36E Lea County, New Mexico FIGURE



Tables



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS EMSU Satellite Battery #10 Empire New Mexico, LLC Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Clo	osure Criteria (Nepth 0 - 4 Feet	NMAC 19.15.29),	10	50	NE	NE	NE	NE	100	600
	NMOCD Table I Closure Criteria (NMAC 19.15.29), Depth >4 Feet		10	50	NE	NE	NE	1,000	2,500	20,000
				Preli	iminary Soil Sa	mples				
SS01	8/1/2022	0.5	<0.0403	<0.0806	<50.0	487	55.8	487	543	241
SS02	8/1/2022	0.5	<0.0398	<0.0795	<50.0	75.8	<50.0	75.8	75.8	786
SS03	8/1/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	943
SS04	8/1/2022	0.5	<0.0396	<0.0792	<50.0	<50.0	<50.0	<50.0	<50.0	747
SS05	8/1/2022	0.5	<0.0404	<0.0808	<50.0	51.8	<50.0	51.8	51.8	683
SS06	8/1/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	40.5
				Deli	neation Soil Sa	mples				
PH01	9/20/2022	0.5	<0.00200	<0.00401	<49.9	65.5	<49.9	65.5	65.5	1,470
PH01A	9/20/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	29.9
PH02	9/20/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	10.7
PH02A	9/20/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	10.3
PH03	9/20/2022	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	748
PH03A	9/20/2022	4	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	94.1
PH04	9/20/2022	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	8.5
PH04A	9/20/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	7.9
PH05	9/29/2022	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	296
PH05A	9/29/2022	4	< 0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	775
PH06	9/29/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	92.4
PH06A	9/29/2022	2	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	408
PH07	9/29/2022	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	284
PH07A	9/29/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	758

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 standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon

Ensolum 1 of 1



APPENDIX A

Project Photographs

PROJECT PHOTOGRAPHS

EMSU Satellite Battery #10 Lea County, New Mexico Empire New Mexico LLC

Photograph 1

Aerial view of the Site and crude oil staining, looking northwest.



Photograph 2

View of pothole PH03, looking west.





APPENDIX B

NMOSE Well Summary

Form WR-23

STATE ENGINEER OFFICE

WELL RECORD

SANTA FE

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1		SS	To Sle	ite 1	Commercial Commercial	NE NO 1	13	V
<u> </u>			¬(A) Owne	er of well	P. O.	Ranches L Box 726	ta.	,
	,	9	1 Street and	Number				New Mex. 88260
				drilled un	de <u>r P</u> ermi	it No. CP-505	and	d is located in the
	1 1	# #					Twp	Rge.
			(B) Drilli	ing Contra	ctor_W_	L. VanNoy	Lice	nse No. WD 208
			Street and	l Number	P. (D. Box 74		1 - W 00 o
						T117 T X .	•	New Mexico 8826
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Section 2			PRIN	ICIPAL WA	TER-BEARI	NG STRATA		
	Depth in	Feet	Thickness in		1		Pagning Formati	
No	rom	To	Feet				-Bearing Formation	on
1	200	210	10	wate	er sand			
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Section 3				RECOR	D OF CAS	ING		اه السبب، الأحماجي و المراجب - المراجب الأحماجي المراجب
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Plugging a							gs were placed	as follows:
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Section 6 LOG OF WELL

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30	45	15	brown	caliche Anna Anna an an an an
+5	70	25	brown Was	wshale to global tompose
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200	210.	10	grey	water sand
210	215	5	red	clay.
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

W. L: VAN NOY.

		•			Well	Driller		, ,
	to Sugar	$\{x_1, x_2, x_3, \dots, x_n\}$	· · .					
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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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Ž		·	AND DESCRIPTION OF THE PARTY OF				CP-1696	WIDER(B)		74 Miles	
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CASING INFORMATION	DEPTH (feet bgl) BORE HOLE			CASING MATERIA GRADE	L AND/OR		SING	CASING	CASING		SLOT
NI S	FROM TO DIAM (inches)			(include each casing			VECTION YPE	INSIDE DIAM. (inches)	THICKN (inche		SIZE (inches)
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Ž	170	210	10 3/4	6" SLOTTED	·	GL	UED	6"	.625		.035
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IAL	FROM	TO	DIAM. (inches)	GRAVEL PACK	SIZE-RANGI	BY INTE	RVAL	(cubic feet)	F	LACE	MENT
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LOCATION

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	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONI (attach supplemental sheets to fully describe all units)	WAT BEARI (YES/	NG?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	2	2	TOP SOIL	Y	N	
	2	26	24	CALICHE	Y	N	
	26	112	86	SAND	Y	N	
	112	119	7	ROCK	Y	N	
	119	206	87	SAND	0	N	UK
ر ا	206	210	4	RED CLAY	<u></u>	N	UK
4. HYDROGEOLOGIC LOG OF WELL		2.10	<u> </u>		Y	N	
JF W					Y	N	
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Hungry Horse, LLC

3709 S. Eunice Hwy
P.O. Box 1058 Hobbs, NM. 88241
575-393-3386

ROTARY DRILLING RIG N.M. LIC # WD-1682

Drilling Log Date Address Well No. Depth ____ Perforation C Rig Time_ Casing ____ Cementing_ Total_ **FORMATION** From To 1000 190 <u>5</u> a. . . d ... Ziroks



APPENDIX C

Laboratory Analytical Reports



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2700-1

Laboratory Sample Delivery Group: 03C2077001 Client Project/Site: EMSU Satellite Battery #10 (001)

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Tacoma Morrissey

RAMER

8/10/2022 7:59:10 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

Have a Question?

EOL

·····LINKS ·······

Review your project results through

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 11/22/2022 11:02:59 AM This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum Project/Site: EMSU Satellite Battery #10 (001) Laboratory Job ID: 890-2700-1 SDG: 03C2077001

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QC Sample Results	9
QC Association Summary	15
Lab Chronicle	17
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receint Checklists	22

Definitions/Glossary

Job ID: 890-2700-1 Client: Ensolum Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

Qualifiers

GC VOA	
Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

GC Semi VOA

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

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

HPLC/IC

S1+

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

DLC

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** DL Detection Limit (DoD/DOE) DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

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"

Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

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

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

Presumptive **PRES** QC **Quality Control** RER

Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL RPD Relative Percent Difference, a measure of the relative difference between two points

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: EMSU Satellite Battery #10 (001)

Job ID: 890-2700-1

SDG: 03C2077001

Job ID: 890-2700-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2700-1

Receipt

The samples were received on 8/1/2022 3:08 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

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS05 (890-2700-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: o-Xylene biased high in LCS. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported.(LCS 880-31680/1-A)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31680 and analytical batch 880-31685 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample duplicate (LCSD) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31801 and analytical batch 880-31685 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.

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.

Client Sample Results

Client: Ensolum Job ID: 890-2700-1 Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

Client Sample ID: SS03 Lab Sample ID: 890-2700-1

Date Collected: 08/01/22 11:20 Matrix: Solid Date Received: 08/01/22 15:08

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		08/08/22 08:17	08/08/22 18:53	
Toluene	<0.00200	U	0.00200	mg/Kg		08/08/22 08:17	08/08/22 18:53	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/08/22 08:17	08/08/22 18:53	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/08/22 08:17	08/08/22 18:53	
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		08/08/22 08:17	08/08/22 18:53	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/08/22 08:17	08/08/22 18:53	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	75		70 - 130			08/08/22 08:17	08/08/22 18:53	
1,4-Difluorobenzene (Surr)	97		70 - 130			08/08/22 08:17	08/08/22 18:53	
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/09/22 16:38	-
Analyte Total TPH	<50.0	U	50.0	mg/Kg		Prepared	Analyzed 08/05/22 13:04	
Total TPH	<50.0	U	50.0	mg/Kg			08/05/22 13:04	
Method: 8015B NM - Diesel Rang								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 17:21	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 17:21	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 17:21	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	80		70 - 130			08/03/22 15:56	08/04/22 17:21	
o-Terphenyl	102		70 - 130			08/03/22 15:56	08/04/22 17:21	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
	•	Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Client Sample ID: SS05 Lab Sample ID: 890-2700-2

Date Collected: 08/01/22 11:40 Date Received: 08/01/22 15:08

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0404	U	0.0404	mg/Kg		08/08/22 08:17	08/08/22 19:14	20
Toluene	<0.0404	U	0.0404	mg/Kg		08/08/22 08:17	08/08/22 19:14	20
Ethylbenzene	<0.0404	U	0.0404	mg/Kg		08/08/22 08:17	08/08/22 19:14	20
m-Xylene & p-Xylene	<0.0808	U	0.0808	mg/Kg		08/08/22 08:17	08/08/22 19:14	20
o-Xylene	<0.0404	U *+	0.0404	mg/Kg		08/08/22 08:17	08/08/22 19:14	20
Xylenes, Total	<0.0808	U	0.0808	mg/Kg		08/08/22 08:17	08/08/22 19:14	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			08/08/22 08:17	08/08/22 19:14	20

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Client: Ensolum Job ID: 890-2700-1 Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

Client Sample ID: SS05 Lab Sample ID: 890-2700-2

Date Collected: 08/01/22 11:40 Date Received: 08/01/22 15:08

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
---	--------------------

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	08/08/22 08:17	08/08/22 19:14	20

Method:	Total	BTFX	- Total	BTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0808		0.0808	mg/Kg			08/09/22 16:38	1

Method: 8015 NM - Diesel Range Organics (DRO)	(CC)	
Method. 6015 NM - Diesel Kange Organics (DRO)	(66)	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.8	50.0	mg/Kg			08/05/22 13:04	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 17:43	1
Diesel Range Organics (Over C10-C28)	51.8		50.0	mg/Kg		08/03/22 15:56	08/04/22 17:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 17:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	78	70 - 130
o-Terphenyl	96	70 - 130

	o-Terphenyl	96	70 - 130		08/03/22 15:56	08/04/22 17:43	1
	– Method: 300.0 - Anions, Ion Chromatogra	phy - Soluble					
ı	Δnalyte	Result Qualifier	RI	Unit I) Prenared	Analyzed	Dil Fac

Chloride	683	5.00	mg/Kg	08/09/22 19:42	1
-					

Client Sample ID: SS06 Lab Sample ID: 890-2700-3 Date Collected: 08/01/22 11:50 Matrix: Solid

Date Received: 08/01/22 15:08

Sample Depth: 0.5'

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

mounda. our ib volutile orga	ino compoundo ((33)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/08/22 08:17	08/08/22 18:33	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/08/22 08:17	08/08/22 18:33	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/08/22 08:17	08/08/22 18:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/08/22 08:17	08/08/22 18:33	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		08/08/22 08:17	08/08/22 18:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/08/22 08:17	08/08/22 18:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			08/08/22 08:17	08/08/22 18:33	1
1,4-Difluorobenzene (Surr)	99		70 - 130			08/08/22 08:17	08/08/22 18:33	1

Mothod:	Total RT	EY Tota	I DTEY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	ma/Ka			08/09/22 16:38	1

Analyte		Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		<49.9	U	49.9	mg/Kg			08/05/22 13:04	1

Eurofins Carlsbad

08/03/22 15:56

08/04/22 17:43

Client Sample Results

Client: Ensolum Job ID: 890-2700-1 Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

Client Sample ID: SS06 Lab Sample ID: 890-2700-3 Matrix: Solid

Date Collected: 08/01/22 11:50 Date Received: 08/01/22 15:08

Sample Depth: 0.5'

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/03/22 15:56	08/04/22 18:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/03/22 15:56	08/04/22 18:05	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/03/22 15:56	08/04/22 18:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130			08/03/22 15:56	08/04/22 18:05	1
o-Terphenyl	84		70 - 130			08/03/22 15:56	08/04/22 18:05	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.5		5.05	mg/Kg			08/09/22 19:50	1

Surrogate Summary

Job ID: 890-2700-1 Client: Ensolum Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17530-A-5-E MS	Matrix Spike	125	97	
880-17530-A-5-F MSD	Matrix Spike Duplicate	128	103	
880-17833-A-1-A MS	Matrix Spike	106	94	
880-17833-A-1-B MSD	Matrix Spike Duplicate	112	92	
890-2700-1	SS03	75	97	
890-2700-2	SS05	134 S1+	95	
890-2700-3	SS06	107	99	
LCS 880-31680/1-A	Lab Control Sample	125	92	
LCS 880-31801/1-A	Lab Control Sample	103	97	
LCSD 880-31680/2-A	Lab Control Sample Dup	106	95	
LCSD 880-31801/2-A	Lab Control Sample Dup	106	97	
MB 880-31680/5-A	Method Blank	98	90	
MB 880-31801/5-A	Method Blank	104	91	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17544-A-1-D MS	Matrix Spike	69 S1-	73	
880-17544-A-1-E MSD	Matrix Spike Duplicate	79	81	
890-2700-1	SS03	80	102	
890-2700-2	SS05	78	96	
890-2700-3	SS06	71	84	
LCS 880-31439/2-A	Lab Control Sample	86	97	
LCSD 880-31439/3-A	Lab Control Sample Dup	88	101	
MB 880-31439/1-A	Method Blank	96	118	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2700-1 Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31680/5-A

Matrix: Solid Analysis Batch: 31685

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31680

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/08/22 08:17	08/08/22 12:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/08/22 08:17	08/08/22 12:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/08/22 08:17	08/08/22 12:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/08/22 08:17	08/08/22 12:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/08/22 08:17	08/08/22 12:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/08/22 08:17	08/08/22 12:03	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/08/22 08:17	08/08/22 12:03	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/08/22 08:17	08/08/22 12:03	1

Lab Sample ID: LCS 880-31680/1-A

Matrix: Solid

Analysis Batch: 31685

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31680

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09608	-	mg/Kg		96	70 - 130	
Toluene	0.100	0.1059		mg/Kg		106	70 - 130	
Ethylbenzene	0.100	0.1185		mg/Kg		118	70 - 130	
m-Xylene & p-Xylene	0.200	0.2507		mg/Kg		125	70 - 130	
o-Xylene	0.100	0.1380	*+	mg/Kg		138	70 - 130	

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-31680/2-A

Matrix: Solid

Analysis Batch: 31685

Prep Type: Total/NA

Prep Batch: 31680

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1071		mg/Kg		107	70 - 130	11	35	
Toluene	0.100	0.1066		mg/Kg		107	70 - 130	1	35	
Ethylbenzene	0.100	0.1143		mg/Kg		114	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.2280		mg/Kg		114	70 - 130	10	35	
o-Xylene	0.100	0.1244		mg/Kg		124	70 - 130	10	35	

LCSD LCSD

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1.4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-17530-A-5-E MS

Matrix: Solid

Analysis Batch: 31685

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

Prep Batch: 31680

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.1066		mg/Kg		105	70 - 130	
Toluene	< 0.00199	U	0.101	0.1147		mg/Kg		114	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-2700-1 Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

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

Lab Sample ID: 880-17530-A-5-E MS

Matrix: Solid

Analysis Batch: 31685

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

Prep Batch: 31680

Sampi	Sample	Spike	MS	MS				%Rec
Analyte Resul	t Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene <0.0019	U U	0.101	0.1313		mg/Kg		130	70 - 130
m-Xylene & p-Xylene <0.0039	3 U F1	0.202	0.2708	F1	mg/Kg		134	70 - 130
o-Xylene <0.0019	9 U F1 *+	0.101	0.1474	F1	mg/Kg		146	70 - 130

MS MS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31680

Lab Sample ID: 880-17530-A-5-F MSD **Matrix: Solid**

Analysis Batch: 31685 Sample Sample Spike MSD MSD

RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.100 Benzene <0.00199 U 0.1056 mg/Kg 105 70 - 130 1 35 Toluene <0.00199 U 0.100 0.1115 35 mg/Kg 111 70 - 130 3 Ethylbenzene <0.00199 U 0.100 0.1213 mg/Kg 121 70 - 130 8 35 m-Xylene & p-Xylene <0.00398 UF1 0.200 0.2484 124 70 - 130 35 mg/Kg 0.100 0.1355 F1 o-Xylene <0.00199 U F1 *+ 135 70 - 130 mg/Kg

MSD MSD

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: MB 880-31801/5-A

Matrix: Solid

Analysis Batch: 31685

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

Prep Batch: 31801

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/08/22 15:42	08/08/22 22:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/08/22 15:42	08/08/22 22:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/08/22 15:42	08/08/22 22:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/08/22 15:42	08/08/22 22:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/08/22 15:42	08/08/22 22:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/08/22 15:42	08/08/22 22:58	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/08/22 15:42	08/08/22 22:58	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/08/22 15:42	08/08/22 22:58	1

Lab Sample ID: LCS 880-31801/1-A

Released to Imaging: 11/22/2022 11:02:59 AM

Matrix: Solid

Analysis Batch: 31685

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31801

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1012		mg/Kg		101	70 - 130
Toluene	0.100	0.09868		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2069		mg/Kg		103	70 - 130

Project/Site: EMSU Satellite Battery #10 (001)

Client: Ensolum

Job ID: 890-2700-1

Prep Type: Total/NA

Prep Batch: 31801

RPD

12

10

7

Limit

35

35

35

35

35

SDG: 03C2077001

Method: 8021B - Vola	atile Organic Compounds	(GC) (Continued)

Lab Sample ID: LCS 880-31801/1-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 31685 Prep Batch: 31801 Spike LCS LCS %Rec

Result

0.1139

Qualifier

Unit

mg/Kg

Added

0.100

0.100

LCS LCS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 103 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 97

Lab Sample ID: LCSD 880-31801/2-A

Matrix: Solid Analysis Batch: 31685

Analyte

o-Xylene

LCSD LCSD Spike Analyte Added Result Qualifier Benzene 0.100 0.09009 Toluene 0.100

97

Sample Sample

<0.00201 U F2 F1

Sample Sample

Result Qualifier

Result Qualifier

m-Xylene & p-Xylene 0.200 0.100 o-Xylene LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 106 70 - 130

Lab Sample ID: 880-17833-A-1-A MS

Matrix: Solid

o-Xylene

Ethylbenzene

Analysis Batch: 31685 Analyte

1,4-Difluorobenzene (Surr)

Benzene <0.00201 UF1 Toluene < 0.00201 U F1 Ethylbenzene <0.00201 UF1 m-Xylene & p-Xylene <0.00402 UF1

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 106 70 - 130 1,4-Difluorobenzene (Surr) 94

Lab Sample ID: 880-17833-A-1-B MSD

Matrix: Solid

Analysis	Batch:	31685	
Analyte			

Benzene <0.00201 UF1 Toluene <0.00201 UF1 Ethylbenzene <0.00201 UF1 m-Xylene & p-Xylene <0.00402 U F1

0.0996 0.0996 0.0996 0.199 o-Xylene <0.00201 U F2 F1 0.0996 Unit %Rec D mg/Kg

D

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

54

35

24

24

25

16

%Rec

114

90

90

96

97

108

D

Limits

70 - 130

Client Sample ID: Lab Control Sample Dup

Limits

70 - 130

70 - 130

70 - 130

70 - 130

70 - 130

%Rec

Limits

70 - 130

70 - 130

70 - 130

70 - 130

70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31801

0.08972 mg/Kg 0.09649 mg/Kg 0.1946 mg/Kg 0.1077 mg/Kg

70 - 130

MS MS Spike

Result Qualifier Added 0.0998 0.05435 F1 0.0998 0.03513 F1 0.0998 0.02412 F1

0.200 0.04804 F1 0.0998 0.02474 F1

MSD MSD

0.04430

0.02686 F1

0.01866 F1

0.03797 F1

0.01578 F2 F1

Result Qualifier

F1

70 - 130

Spike

Added

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 31801

	%Rec		RPD
%Rec	Limits	RPD	Limit
44	70 - 130	20	35
27	70 - 130	27	35
19	70 - 130	26	35
19	70 - 130	23	35

70 - 130

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44

35

Limits

Job ID: 890-2700-1 Client: Ensolum Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

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

Lab Sample ID: 880-17833-A-1-B MSD

Matrix: Solid

Analysis Batch: 31685

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31801

MSD MSD Surrogate %Recovery Qualifier

4-Bromofluorobenzene (Surr) 112 70 - 130 1,4-Difluorobenzene (Surr) 92 70 - 130

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

Lab Sample ID: MB 880-31439/1-A

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31439

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 08/03/22 15:56 08/04/22 10:03 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 08/03/22 15:56 08/04/22 10:03 C10-C28) 08/03/22 15:56 Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 08/04/22 10:03

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/03/22 15:56	08/04/22 10:03	1
o-Terphenyl	118		70 - 130	08/03/22 15:56	08/04/22 10:03	1

Lab Sample ID: LCS 880-31439/2-A

Matrix: Solid

Analysis Batch: 31457

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

Prep Batch: 31439

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	974.8		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	955.3		mg/Kg		96	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-31439/3-A

Released to Imaging: 11/22/2022 11:02:59 AM

Matrix: Solid Analysis Batch: 31457

Client Sample ID: Lab Control Sample Dup

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Gasoline Range Organics 1000 1034 103 70 - 130 6 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 985.7 99 70 - 130 3 20 mg/Kg C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	88	70 - 130
o-Terphenyl	101	70 - 130

Eurofins Carlsbad

Prep Type: Total/NA Prep Batch: 31439

Job ID: 890-2700-1 Client: Ensolum Project/Site: EMSU Satellite Battery #10 (001)

SDG: 03C2077001

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

Lab Sample ID: 880-17544-A-1-D MS **Matrix: Solid**

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

Prep Batch: 31439

Sample Sample Spike MS MS Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 999 936.9 mg/Kg 91 70 - 130 (GRO)-C6-C10 999 766.8 77 70 - 130Diesel Range Organics (Over <49.9 U mg/Kg

C10-C28)

Matrix: Solid

Analysis Batch: 31457

Analysis Batch: 31457

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 S1-69 o-Terphenyl 73 70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31439

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit 999 3 Gasoline Range Organics <49.9 908.2 mg/Kg 88 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 866.8 mg/Kg 87 70 - 130 12 20 C10-C28)

MSD MSD

Lab Sample ID: 880-17544-A-1-E MSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 79 70 - 130 81 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31444/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31665

MB MB Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 08/09/22 14:15 mg/Kg

Lab Sample ID: LCS 880-31444/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31665

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 233.6 93 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-31444/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 31665

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Chloride 250 234.4 mg/Kg 94 90 _ 110 20

QC Sample Results

Client: Ensolum Job ID: 890-2700-1 Project/Site: EMSU Satellite Battery #10 (001)

SDG: 03C2077001

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2695-A-4-C MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31665

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	81.0		251	328.8		mg/Kg		99	90 - 110	

Lab Sample ID: 890-2695-A-4-D MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 31665

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	81.0		251	327.2		mg/Kg	_	98	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: EMSU Satellite Battery #10 (001)
SDG: 03C2077001

GC VOA

Prep Batch: 31680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2700-1	SS03	Total/NA	Solid	5035	
890-2700-2	SS05	Total/NA	Solid	5035	
890-2700-3	SS06	Total/NA	Solid	5035	
MB 880-31680/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31680/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31680/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17530-A-5-E MS	Matrix Spike	Total/NA	Solid	5035	
880-17530-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2700-1	SS03	Total/NA	Solid	8021B	31680
890-2700-2	SS05	Total/NA	Solid	8021B	31680
890-2700-3	SS06	Total/NA	Solid	8021B	31680
MB 880-31680/5-A	Method Blank	Total/NA	Solid	8021B	31680
MB 880-31801/5-A	Method Blank	Total/NA	Solid	8021B	31801
LCS 880-31680/1-A	Lab Control Sample	Total/NA	Solid	8021B	31680
LCS 880-31801/1-A	Lab Control Sample	Total/NA	Solid	8021B	31801
LCSD 880-31680/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31680
LCSD 880-31801/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31801
880-17530-A-5-E MS	Matrix Spike	Total/NA	Solid	8021B	31680
880-17530-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31680
880-17833-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	31801
880-17833-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31801

Prep Batch: 31801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31801/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31801/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31801/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17833-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-17833-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep I	Batch
890-2700-1	SS03	Total/NA	Solid	Total BTEX	
890-2700-2	SS05	Total/NA	Solid	Total BTEX	
890-2700-3	SS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 31439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2700-1	SS03	Total/NA	Solid	8015NM Prep	
890-2700-2	SS05	Total/NA	Solid	8015NM Prep	
890-2700-3	SS06	Total/NA	Solid	8015NM Prep	
MB 880-31439/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31439/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17544-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17544-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: EMSU Satellite Battery #10 (001)
SDG: 03C2077001

GC Semi VOA

Analysis Batch: 31457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2700-1	SS03	Total/NA	Solid	8015B NM	31439
890-2700-2	SS05	Total/NA	Solid	8015B NM	31439
890-2700-3	SS06	Total/NA	Solid	8015B NM	31439
MB 880-31439/1-A	Method Blank	Total/NA	Solid	8015B NM	31439
LCS 880-31439/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31439
LCSD 880-31439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31439
880-17544-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	31439
880-17544-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31439

Analysis Batch: 31586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2700-1	SS03	Total/NA	Solid	8015 NM	
890-2700-2	SS05	Total/NA	Solid	8015 NM	
890-2700-3	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2700-1	SS03	Soluble	Solid	DI Leach	
890-2700-2	SS05	Soluble	Solid	DI Leach	
890-2700-3	SS06	Soluble	Solid	DI Leach	
MB 880-31444/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31444/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31444/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2695-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2695-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 31665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2700-1	SS03	Soluble	Solid	300.0	31444
890-2700-2	SS05	Soluble	Solid	300.0	31444
890-2700-3	SS06	Soluble	Solid	300.0	31444
MB 880-31444/1-A	Method Blank	Soluble	Solid	300.0	31444
LCS 880-31444/2-A	Lab Control Sample	Soluble	Solid	300.0	31444
LCSD 880-31444/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31444
890-2695-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	31444
890-2695-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31444

Eurofins Carlsbad

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Client: Ensolum Job ID: 890-2700-1 Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

Client Sample ID: SS03 Lab Sample ID: 890-2700-1

Date Collected: 08/01/22 11:20 **Matrix: Solid** Date Received: 08/01/22 15:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	31680	08/08/22 08:17	EL	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31685	08/08/22 18:53	MR	EETSC MIC
Total/NA	Analysis	Total BTEX		1			31868	08/09/22 16:38	SM	EETSC MIE
Total/NA	Analysis	8015 NM		1			31586	08/05/22 13:04	AJ	EETSC MIE
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31439	08/03/22 15:56	DM	EETSC MIE
Total/NA	Analysis	8015B NM		1			31457	08/04/22 17:21	AJ	EETSC MIC
Soluble	Leach	DI Leach			5.05 g	50 mL	31444	08/03/22 17:00	SMC	EETSC MIC
Soluble	Analysis	300.0		1			31665	08/09/22 19:19	CH	EETSC MID

Lab Sample ID: 890-2700-2 **Client Sample ID: SS05** Date Collected: 08/01/22 11:40 Matrix: Solid

Date Received: 08/01/22 15:08

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 31680 EETSC MID Total/NA 4.95 g 5 mL 08/08/22 08:17 EL Total/NA 8021B 5 mL 31685 08/08/22 19:14 EETSC MII Analysis 20 5 mL MR Total/NA Total BTEX 31868 08/09/22 16:38 SM EETSC MIE Analysis 1 Total/NA Analysis 8015 NM 31586 08/05/22 13:04 ΑJ EETSC MID Total/NA 8015NM Prep 31439 EETSC MIE Prep 10.01 g 10 mL 08/03/22 15:56 DM Total/NA Analysis 8015B NM 31457 08/04/22 17:43 ΑJ EETSC MID Soluble 08/03/22 17:00 SMC EETSC MIE Leach DI Leach 5 g 50 mL 31444 Soluble Analysis 300.0 31665 08/09/22 19:42 СН EETSC MIE

Lab Sample ID: 890-2700-3 **Client Sample ID: SS06** Date Collected: 08/01/22 11:50 **Matrix: Solid**

Date Received: 08/01/22 15:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31680	08/08/22 08:17	EL	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31685	08/08/22 18:33	MR	EETSC MID
Total/NA	Analysis	Total BTEX		1			31868	08/09/22 16:38	SM	EETSC MID
Total/NA	Analysis	8015 NM		1			31586	08/05/22 13:04	AJ	EETSC MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31439	08/03/22 15:56	DM	EETSC MID
Total/NA	Analysis	8015B NM		1			31457	08/04/22 18:05	AJ	EETSC MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31444	08/03/22 17:00	SMC	EETSC MID
Soluble	Analysis	300.0		1			31665	08/09/22 19:50	CH	EETSC MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2700-1 Project/Site: EMSU Satellite Battery #10 (001)

SDG: 03C2077001

Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date		
Texas	NI	ELAP	T104704400-22-24	06-30-23		
The following analytes the agency does not of		ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo		
Analysis Method	Prep Method	Matrix	Analyte			
8015 NM		Solid	Total TPH			
Total BTEX		Solid	Total BTEX			

Method Summary

Client: Ensolum

Project/Site: EMSU Satellite Battery #10 (001)

Job ID: 890-2700-1

SDG: 03C2077001

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

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

Sample Summary

Client: Ensolum

Project/Site: EMSU Satellite Battery #10 (001)

Job ID: 890-2700-1

S

SDG: 03C2077001	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
890-2700-1	SS03	Solid	08/01/22 11:20	08/01/22 15:08	0.5'
890-2700-2	SS05	Solid	08/01/22 11:40	08/01/22 15:08	0.5'
890-2700-3	SS06	Solid	08/01/22 11:50	08/01/22 15:08	0.5'

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eurofins

Phone:

City, State ZIP ddress: ompany Name:

Carlsbad, NM 88220 3122 National Parks HWY

337-257-8307

Email: tmorrissey@ensolum.com

City, State ZIP:

Carlsbad, NM 88220 3122 National Parks HWY Company Name: Bill to: (if different)

> Ensolum Tacoma Morrissey

EMSU Satellite Battery #10 (001)

03C2077001 Eunice

Project Manager:

Tacoma Morrissey

Ensolum

Wet Ice:

S

Parameters

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

Gilbert Moreno

Due Date:

5 Day TAT ☐ Rush

☑ Routine

Turn Around

ANALYSIS REQUEST

HCL: HC H₂S0₄: H₂ H3PO4: HP

Cool: Cool

MeOH: Me HNO₃: HN

NaOH: Na

None: NO

DI Water: H₂O

Preservative Codes

TAT starts the day received by the lab, if received by 4:30pm

Chain of Custody

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

Work Order No:

www.xenco.com Page	of /
Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund [Superfund
State of Project:	
Reporting: Level II Level III PST/UST TRRP Level IV	☐ Level IV☐
Deliverables: EDD ☐ ADaPT ☐ Other:	

	σ (Empleys .	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subconfractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 200.8							SSUG	8800	SCOS	SS03	Sample Identification	Total Containers:	Sample Custody Seals: Yes	Yes	Samples Received Intact:	
	+	1	7	elinquishme only for the o \$85.00 will l	o be ana	200.8 / 6020:	F	1				+	6	2 0	S	S	Matrix	(No / N/A	No MIA	R	
		200	Recei	nt of samples c ost of samples se applied to ea	yzed								0.1.22	0 0	8 1 22	8.1.22	Date X Sampled	Corrected	N/A Temperature Reading:	Correction Factor:	Hermometer ID:	
		da	Received by: (Signature	onstitutes a val s and shall not a ach project and	TCLP /	8RCRA 13PPM Texas 11 Al Sb As Ba Be			1	1 into		,		11.50	11:40	11:20	Time Sampled	Corrected Temperature:	re Reading:	Factor:	er ID:	
		Stuf	pature)	d purchase or ssume any re- a charge of \$6	TCLP / SPLP 6010: 8RCRA	зррм Те				2	W. Salar		0.0	מַ פּ	0.5	0.5 <u>.</u>	Depth	V	n	1-V.	1000	-
		(1)		rder from sponsibilit for each	0: 8RC	xas 11							C	Grah/	Grab/	Grab/	Grab/ Comp	6	icx	2	700	
		18		client co ty for any sample a	RA	AI SI		_		1	à			_	_		# of			P	ara	ľ
		12	Date/Time	mpany to josses ubmitted	Sb As	o As		-	-	1	22		;	<	×	×	CHLO	RIDE	S (E	PA:	30	0
		7	ime	o Eurofin or expen d to Euro	Ba B	Ва Ве	-	-	-					\dashv	× —	×	TPH (8	_	-			_
	O)	200		s Xenco ses incu	e Cd	ВС		+	+		H	_	,	*	× —	×	BTEX	(802	1			-
			Relinquished by: (Signature)	ts affiliates and subcontractor, its affiliates and subcontractor, tred by the client if such loases co, but not analyzed. These term	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Cd Ca Cr Co Cu Fe Pt												-	890-2700 Chain of			
			iture)	s. It assigns sta are due to circu ns will be enforce	Ni Se Ag	Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn		+										_	Chairm	Milimini		
			Received by: (Signature)	andard terms a umstances beyoned unless previews.	ī	No Ni K Se													-			
			d by: (S	nd condition on the conditions in the conditions in the condition in the c	Hg	e Ag S		\dagger						-				+	-	1		
			gnatur	ons ntrol otiated.	1631 /	O ₂ Na									-							-
Revisa			<u>е</u>)		Hg: 1631 / 245.1 / 7470 / 7471	Sr TI Sr							Cost Center:			Incident ID:	Sam	NaOH+Asc	Zn Acetate	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO4: NABIS	11.50
Revised Date: 08/25/2020 Rev. 2020 2			Date/Time		70 / 7471	UZ A D L							ter:			D:	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	VaSO ₃	VABIS	5

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2700-1 SDG Number: 03C2077001

Login Number: 2700 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2700-1

SDG Number: 03C2077001

List Source: Eurofins Midland List Creation: 08/03/22 10:15 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 2700

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2701-1

Laboratory Sample Delivery Group: 03C2077001 Client Project/Site: EMSU Satellite Battery #10 (001)

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Tacoma Morrissey

RAMER

8/10/2022 7:59:10 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

Review your project results through EOL **Have a Question?**

·····LINKS ·······

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 11/22/2022 11:02:59 AM This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum Project/Site: EMSU Satellite Battery #10 (001) Laboratory Job ID: 890-2701-1 SDG: 03C2077001

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Definitions/Glossary

Job ID: 890-2701-1 Client: Ensolum Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

Qualifiers

GC	VOA
Qua	lifier

*+	LCS and/or LCSD is outside acceptance limits, high biased
F1	MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Qualifier Description

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
	1 2 4 4 14 1 16 1 4

Indicates the analyte was analyzed for but not detected.

Glossary

DL, RA, RE, IN

DLC

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

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

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

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

Decision Level Concentration (Radiochemistry)

Method Detection Limit MDL 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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: EMSU Satellite Battery #10 (001)

Job ID: 890-2701-1

SDG: 03C2077001

Job ID: 890-2701-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2701-1

Receipt

The samples were received on 8/1/2022 3:08 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

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-2701-1), SS02 (890-2701-2) and SS04 (890-2701-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: o-Xylene biased high in LCS. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported.(LCS 880-31680/1-A)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31680 and analytical batch 880-31685 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample duplicate (LCSD) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31801 and analytical batch 880-31685 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.

GC Semi VOA

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-2701-1

Client Sample Results

Client: Ensolum
Project/Site: EMSU Satellite Battery #10 (001)
SDG: 03C2077001

Client Sample ID: SS01

Date Collected: 08/01/22 11:00 Date Received: 08/01/22 15:08

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.0403	U	0.0403	mg/Kg		08/08/22 08:17	08/08/22 19:35	2
Toluene	< 0.0403	U	0.0403	mg/Kg		08/08/22 08:17	08/08/22 19:35	2
Ethylbenzene	< 0.0403	U	0.0403	mg/Kg		08/08/22 08:17	08/08/22 19:35	2
m-Xylene & p-Xylene	<0.0806	U	0.0806	mg/Kg		08/08/22 08:17	08/08/22 19:35	2
o-Xylene	< 0.0403	U *+	0.0403	mg/Kg		08/08/22 08:17	08/08/22 19:35	2
Xylenes, Total	<0.0806	U	0.0806	mg/Kg		08/08/22 08:17	08/08/22 19:35	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			08/08/22 08:17	08/08/22 19:35	
1,4-Difluorobenzene (Surr)	95		70 - 130			08/08/22 08:17	08/08/22 19:35	2
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.0806	U	0.0806	mg/Kg			08/09/22 16:38	
Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	543		50.0	mg/Kg			08/05/22 13:04	
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 19:10	
Diesel Range Organics (Over C10-C28)	487		50.0	mg/Kg		08/03/22 15:56	08/04/22 19:10	
Oll Range Organics (Over C28-C36)	55.8		50.0	mg/Kg		08/03/22 15:56	08/04/22 19:10	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	100		70 - 130			08/03/22 15:56	08/04/22 19:10	
o-Terphenyl	121		70 - 130			08/03/22 15:56	08/04/22 19:10	
Method: 300.0 - Anions, Ion Ch	nromatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	241		4.98	mg/Kg			08/09/22 19:58	

Client Sample ID: SS02

Date Collected: 08/01/22 11:10

Lab Sample ID: 890-2701-2

Matrix: Solid

Date Received: 08/01/22 15:08

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398	mg/Kg		08/08/22 08:17	08/08/22 19:55	20
Toluene	<0.0398	U	0.0398	mg/Kg		08/08/22 08:17	08/08/22 19:55	20
Ethylbenzene	<0.0398	U	0.0398	mg/Kg		08/08/22 08:17	08/08/22 19:55	20
m-Xylene & p-Xylene	<0.0795	U	0.0795	mg/Kg		08/08/22 08:17	08/08/22 19:55	20
o-Xylene	<0.0398	U *+	0.0398	mg/Kg		08/08/22 08:17	08/08/22 19:55	20
Xylenes, Total	<0.0795	U	0.0795	mg/Kg		08/08/22 08:17	08/08/22 19:55	20

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Client: Ensolum

Job ID: 890-2701-1

Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

Client Sample ID: SS02 Lab Sample ID: 890-2701-2 Date Collected: 08/01/22 11:10 Matrix: Solid

Date Received: 08/01/22 15:08

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			08/08/22 08:17	08/08/22 19:55	2
1,4-Difluorobenzene (Surr)	89		70 - 130			08/08/22 08:17	08/08/22 19:55	2
· Method: Total BTEX - Total BTE)	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.0795	U	0.0795	mg/Kg			08/09/22 16:38	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
· ······ , ·-								
Total TPH	75.8	PO) (CC)	50.0	mg/Kg			08/05/22 13:04	
Total TPH Method: 8015B NM - Diesel Ranç Analyte	ge Organics (DI	RO) (GC) Qualifier	50.0	mg/Kg Unit	D	Prepared	08/05/22 13:04 Analyzed	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (DI	Qualifier			<u>D</u>	Prepared 08/03/22 15:56		Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (DI	Qualifier	RL	Unit	<u>D</u>		Analyzed	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (DI Result <50.0	Qualifier U	RL 50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	08/03/22 15:56	Analyzed 08/04/22 18:26	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DI Result <50.0 75.8 <50.0	Qualifier U	RL 50.0	Unit mg/Kg mg/Kg	<u>D</u>	08/03/22 15:56 08/03/22 15:56	Analyzed 08/04/22 18:26 08/04/22 18:26	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DI Result <50.0 75.8 <50.0	Qualifier U	FL 50.0 50.0 50.0	Unit mg/Kg mg/Kg	<u>D</u>	08/03/22 15:56 08/03/22 15:56 08/03/22 15:56	Analyzed 08/04/22 18:26 08/04/22 18:26 08/04/22 18:26	

Client Sample ID: SS04 Lab Sample ID: 890-2701-3 **Matrix: Solid**

RL

4.98

Unit

mg/Kg

D

Prepared

Result Qualifier

786

Date Collected: 08/01/22 11:30 Date Received: 08/01/22 15:08

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 0.5'

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0396	U	0.0396	mg/Kg		08/08/22 08:17	08/08/22 20:16	20
Toluene	< 0.0396	U	0.0396	mg/Kg		08/08/22 08:17	08/08/22 20:16	20
Ethylbenzene	< 0.0396	U	0.0396	mg/Kg		08/08/22 08:17	08/08/22 20:16	20
m-Xylene & p-Xylene	<0.0792	U	0.0792	mg/Kg		08/08/22 08:17	08/08/22 20:16	20
o-Xylene	< 0.0396	U *+	0.0396	mg/Kg		08/08/22 08:17	08/08/22 20:16	20
Xylenes, Total	<0.0792	U	0.0792	mg/Kg		08/08/22 08:17	08/08/22 20:16	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			08/08/22 08:17	08/08/22 20:16	20
1,4-Difluorobenzene (Surr)	90		70 - 130			08/08/22 08:17	08/08/22 20:16	20
- Method: Total BTEX - Total B1	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0792	U	0.0792	mg/Kg			08/09/22 16:38	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	mg/Kg			08/05/22 13:04	

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Dil Fac

Analyzed

08/09/22 20:06

Client Sample Results

Client: Ensolum Job ID: 890-2701-1 Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

Client Sample ID: SS04

Lab Sample ID: 890-2701-3 Date Collected: 08/01/22 11:30 Matrix: Solid

Date Received: 08/01/22 15:08 Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 18:48	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 18:48	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 18:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130			08/03/22 15:56	08/04/22 18:48	1
o-Terphenyl	88		70 - 130			08/03/22 15:56	08/04/22 18:48	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	747		5.03	mg/Kg			08/09/22 20:14	1

Surrogate Summary

Job ID: 890-2701-1 Client: Ensolum Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17530-A-5-E MS	Matrix Spike	125	97	
880-17530-A-5-F MSD	Matrix Spike Duplicate	128	103	
880-17833-A-1-A MS	Matrix Spike	106	94	
880-17833-A-1-B MSD	Matrix Spike Duplicate	112	92	
890-2701-1	SS01	132 S1+	95	
890-2701-2	SS02	140 S1+	89	
890-2701-3	SS04	140 S1+	90	
LCS 880-31680/1-A	Lab Control Sample	125	92	
LCS 880-31801/1-A	Lab Control Sample	103	97	
LCSD 880-31680/2-A	Lab Control Sample Dup	106	95	
LCSD 880-31801/2-A	Lab Control Sample Dup	106	97	
MB 880-31680/5-A	Method Blank	98	90	
MB 880-31801/5-A	Method Blank	104	91	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17544-A-1-D MS	Matrix Spike	69 S1-	73	
880-17544-A-1-E MSD	Matrix Spike Duplicate	79	81	
890-2701-1	SS01	100	121	
890-2701-2	SS02	95	118	
890-2701-3	SS04	70	88	
LCS 880-31439/2-A	Lab Control Sample	86	97	
LCSD 880-31439/3-A	Lab Control Sample Dup	88	101	
MB 880-31439/1-A	Method Blank	96	118	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2701-1 Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31680/5-A

Matrix: Solid

Analysis Batch: 31685

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31680

ı		MB	мв						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		08/08/22 08:17	08/08/22 12:03	1
	Toluene	<0.00200	U	0.00200	mg/Kg		08/08/22 08:17	08/08/22 12:03	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/08/22 08:17	08/08/22 12:03	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/08/22 08:17	08/08/22 12:03	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		08/08/22 08:17	08/08/22 12:03	1
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/08/22 08:17	08/08/22 12:03	1
ı									

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/08/22 08:17	08/08/22 12:03	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/08/22 08:17	08/08/22 12:03	1

Lab Sample ID: LCS 880-31680/1-A

Matrix: Solid

Analysis Batch: 31685

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31680

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09608	-	mg/Kg		96	70 - 130	
Toluene	0.100	0.1059		mg/Kg		106	70 - 130	
Ethylbenzene	0.100	0.1185		mg/Kg		118	70 - 130	
m-Xylene & p-Xylene	0.200	0.2507		mg/Kg		125	70 - 130	
o-Xylene	0.100	0.1380	*+	mg/Kg		138	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	125	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: LCSD 880-31680/2-A

Matrix: Solid

Analysis Batch: 31685

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 31680

RPD LCSD LCSD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1071 mg/Kg 107 70 - 130 11 35 Toluene 0.100 0.1066 mg/Kg 107 70 - 130 35 Ethylbenzene 0.100 0.1143 mg/Kg 114 70 - 130 35 0.200 m-Xylene & p-Xylene 0.2280 mg/Kg 114 70 - 130 10 35 0.100 0.1244 o-Xylene mg/Kg 124 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	106		70 - 130		
1,4-Difluorobenzene (Surr)	95		70 - 130		

Lab Sample ID: 880-17530-A-5-E MS

Matrix: Solid

Analysis Batch: 31685

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

Prep Batch: 31680

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.1066		mg/Kg		105	70 - 130	
Toluene	<0.00199	U	0.101	0.1147		mg/Kg		114	70 - 130	

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Client: Ensolum Job ID: 890-2701-1 Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

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

Lab Sample ID: 880-17530-A-5-E MS

Lab Sample ID: 880-17530-A-5-F MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 31685

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

Prep Batch: 31680

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00199 U 0.101 0.1313 130 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00398 UF1 0.202 0.2708 F1 mg/Kg 134 70 - 130 0.101 o-Xylene <0.00199 U F1 *+ 0.1474 F1 mg/Kg 146 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	125		70 - 130		
1,4-Difluorobenzene (Surr)	97		70 - 130		

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31680

Analysis Batch: 31685 Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00199 U 0.1056 mg/Kg 105 70 - 130 1 35 Toluene <0.00199 0.100 0.1115 mg/Kg 111 70 - 130 3 35 Ethylbenzene <0.00199 U 0.100 0.1213 mg/Kg 121 70 - 130 8 35 <0.00398 UF1 0.200 0.2484 70 - 130 35 m-Xylene & p-Xylene mg/Kg 124 0.100 0.1355 F1 <0.00199 U F1 *+ 135 70 - 130 o-Xylene mg/Kg 8

MSD MSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	128		70 - 130		
1,4-Difluorobenzene (Surr)	103		70 - 130		

Lab Sample ID: MB 880-31801/5-A

Matrix: Solid

Analysis Batch: 31685

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31801

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/08/22 15:42	08/08/22 22:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/08/22 15:42	08/08/22 22:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/08/22 15:42	08/08/22 22:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/08/22 15:42	08/08/22 22:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/08/22 15:42	08/08/22 22:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/08/22 15:42	08/08/22 22:58	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/08/22 15:42	08/08/22 22:58	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/08/22 15:42	08/08/22 22:58	1

Lab Sample ID: LCS 880-31801/1-A

Matrix: Solid

Analysis Batch: 31685

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31801

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1012		mg/Kg		101	70 - 130
Toluene	0.100	0.09868		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2069		mg/Kg		103	70 - 130

QC Sample Results

Client: Ensolum

Project/Site: EMSU Satellite Battery #10 (001)

SDG: 03C2077001

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

Lab Sample ID: LCS 880-31801/1-A

Matrix: Solid

Analysis Batch: 31685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31801

	Spike	LUS	LUS				/ortec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	0.100	0.1139		mg/Kg		114	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-31801/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 31685 Prep Batch: 31801

Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.09009		mg/Kg		90	70 - 130	12	35
0.100	0.08972		mg/Kg		90	70 - 130	10	35
0.100	0.09649		mg/Kg		96	70 - 130	7	35
0.200	0.1946		mg/Kg		97	70 - 130	6	35
0.100	0.1077		mg/Kg		108	70 - 130	6	35
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.09009 0.100 0.08972 0.100 0.09649 0.200 0.1946	Added Result Qualifier 0.100 0.09009 0.100 0.100 0.08972 0.100 0.200 0.1946 0.1946	Added Result Qualifier Unit 0.100 0.09009 mg/Kg 0.100 0.08972 mg/Kg 0.100 0.09649 mg/Kg 0.200 0.1946 mg/Kg	Added Result Qualifier Unit D 0.100 0.09009 mg/Kg 0.100 0.08972 mg/Kg 0.100 0.09649 mg/Kg 0.200 0.1946 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.09009 mg/Kg 90 0.100 0.08972 mg/Kg 90 0.100 0.09649 mg/Kg 96 0.200 0.1946 mg/Kg 97	Added Result Qualifier Unit D %Rec Limits 0.100 0.09009 mg/Kg 90 70 - 130 0.100 0.08972 mg/Kg 90 70 - 130 0.100 0.09649 mg/Kg 96 70 - 130 0.200 0.1946 mg/Kg 97 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.09009 mg/Kg 90 70 - 130 12 0.100 0.08972 mg/Kg 90 70 - 130 10 0.100 0.09649 mg/Kg 96 70 - 130 7 0.200 0.1946 mg/Kg 97 70 - 130 6

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-17833-A-1-A MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 31685 Prep Batch: 31801

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.0998	0.05435	F1	mg/Kg		54	70 - 130	
Toluene	<0.00201	U F1	0.0998	0.03513	F1	mg/Kg		35	70 - 130	
Ethylbenzene	<0.00201	U F1	0.0998	0.02412	F1	mg/Kg		24	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.04804	F1	mg/Kg		24	70 - 130	
o-Xylene	<0.00201	U F2 F1	0.0998	0.02474	F1	mg/Kg		25	70 - 130	

0-Aylerie	<0.00201	0 72 7 1	0.0996	U.U2474 FT
	MS	MS		
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	106		70 - 130	
1,4-Difluorobenzene (Surr)	94		70 - 130	

Lab Sample ID: 880-17833-A-1-B MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 31685 Prep Batch: 31801

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0996	0.04430	F1	mg/Kg		44	70 - 130	20	35
Toluene	<0.00201	U F1	0.0996	0.02686	F1	mg/Kg		27	70 - 130	27	35
Ethylbenzene	<0.00201	U F1	0.0996	0.01866	F1	mg/Kg		19	70 - 130	26	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.03797	F1	mg/Kg		19	70 - 130	23	35
o-Xylene	<0.00201	U F2 F1	0.0996	0.01578	F2 F1	mg/Kg		16	70 - 130	44	35

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Job ID: 890-2701-1 Client: Ensolum Project/Site: EMSU Satellite Battery #10 (001) SDG: 03C2077001

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

Lab Sample ID: 880-17833-A-1-B MSD

Matrix: Solid

Analysis Batch: 31685

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31801

MSD MSD

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

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

Lab Sample ID: MB 880-31439/1-A

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31439

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 08/03/22 15:56 08/04/22 10:03 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 08/03/22 15:56 08/04/22 10:03 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 08/03/22 15:56 08/04/22 10:03

MB MB

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 70 - 130 08/03/22 15:56 08/04/22 10:03 1-Chlorooctane 96 o-Terphenyl 118 70 - 130 08/03/22 15:56 08/04/22 10:03

Lab Sample ID: LCS 880-31439/2-A

Matrix: Solid

Analysis Batch: 31457

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

Prep Batch: 31439

%Rec

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 974.8 mg/Kg 97 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 955.3 mg/Kg 96 70 - 130 C10-C28)

LCS LCS

%Recovery Surrogate Qualifier Limits 1-Chlorooctane 86 70 - 130 o-Terphenyl 97 70 - 130

Lab Sample ID: LCSD 880-31439/3-A

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31439

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 1034 103 70 - 130 6 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 985.7 99 70 - 130 3 20 mg/Kg C10-C28)

LCSD LCSD

%Recovery Surrogate Qualifier Limits 88 70 - 130 1-Chlorooctane 101 70 - 130 o-Terphenyl

Job ID: 890-2701-1

SDG: 03C2077001

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

Lab Sample ID: 880-17544-A-1-D MS

Project/Site: EMSU Satellite Battery #10 (001)

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 31439

Prep Type: Total/NA

Prep Batch: 31439

	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	936.9		mg/Kg		91	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	766.8		mg/Kg		77	70 - 130	

Client: Ensolum

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	73		70 - 130

Lab Sample ID: 880-17544-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 31457

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	999	908.2		mg/Kg		88	70 - 130	3	20
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	999	866.8		mg/Kg		87	70 - 130	12	20
C10-C28)											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	81		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31444/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31665

MB MB

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/09/22 14:15	1

Lab Sample ID: LCS 880-31444/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31665

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	250	233 6		ma/Ka	_	93	90 - 110

Lab Sample ID: LCSD 880-31444/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31665

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 234.4 90 - 110 mg/Kg

QC Sample Results

Client: Ensolum Job ID: 890-2701-1 Project/Site: EMSU Satellite Battery #10 (001)

SDG: 03C2077001

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2695-A-4-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble Analysis Batch: 31665

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Chloride 81.0 251 328.8 mg/Kg 99 90 - 110

Lab Sample ID: 890-2695-A-4-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 31665

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 81.0 251 327.2 mg/Kg 98 90 - 110 0 20

QC Association Summary

Client: Ensolum

Project/Site: EMSU Satellite Battery #10 (001)

SDG: 03C2077001

GC VOA

Prep Batch: 31680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2701-1	SS01	Total/NA	Solid	5035	
890-2701-2	SS02	Total/NA	Solid	5035	
890-2701-3	SS04	Total/NA	Solid	5035	
MB 880-31680/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31680/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31680/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17530-A-5-E MS	Matrix Spike	Total/NA	Solid	5035	
880-17530-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2701-1	SS01	Total/NA	Solid	8021B	31680
890-2701-2	SS02	Total/NA	Solid	8021B	31680
890-2701-3	SS04	Total/NA	Solid	8021B	31680
MB 880-31680/5-A	Method Blank	Total/NA	Solid	8021B	31680
MB 880-31801/5-A	Method Blank	Total/NA	Solid	8021B	31801
LCS 880-31680/1-A	Lab Control Sample	Total/NA	Solid	8021B	31680
LCS 880-31801/1-A	Lab Control Sample	Total/NA	Solid	8021B	31801
LCSD 880-31680/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31680
LCSD 880-31801/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31801
880-17530-A-5-E MS	Matrix Spike	Total/NA	Solid	8021B	31680
880-17530-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31680
880-17833-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	31801
880-17833-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31801

Prep Batch: 31801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31801/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31801/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31801/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17833-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-17833-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2701-1 890-2701-2	SS01 SS02	Total/NA Total/NA	Solid Solid	Total BTEX Total BTEX	
890-2701-3	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 31439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2701-1	SS01	Total/NA	Solid	8015NM Prep	
890-2701-2	SS02	Total/NA	Solid	8015NM Prep	
890-2701-3	SS04	Total/NA	Solid	8015NM Prep	
MB 880-31439/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31439/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17544-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17544-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum Job ID: 890-2701-1 Project/Site: EMSU Satellite Battery #10 (001)

SDG: 03C2077001

GC Semi VOA

Analysis Batch: 31457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2701-1	SS01	Total/NA	Solid	8015B NM	31439
890-2701-2	SS02	Total/NA	Solid	8015B NM	31439
890-2701-3	SS04	Total/NA	Solid	8015B NM	31439
MB 880-31439/1-A	Method Blank	Total/NA	Solid	8015B NM	31439
LCS 880-31439/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31439
LCSD 880-31439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31439
880-17544-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	31439
880-17544-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31439

Analysis Batch: 31587

Lab Sample ID 890-2701-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-2701-2	SS02	Total/NA	Solid	8015 NM	
890-2701-3	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2701-1	SS01	Soluble	Solid	DI Leach	_
890-2701-2	SS02	Soluble	Solid	DI Leach	
890-2701-3	SS04	Soluble	Solid	DI Leach	
MB 880-31444/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31444/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31444/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2695-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2695-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 31665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2701-1	SS01	Soluble	Solid	300.0	31444
890-2701-2	SS02	Soluble	Solid	300.0	31444
890-2701-3	SS04	Soluble	Solid	300.0	31444
MB 880-31444/1-A	Method Blank	Soluble	Solid	300.0	31444
LCS 880-31444/2-A	Lab Control Sample	Soluble	Solid	300.0	31444
LCSD 880-31444/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31444
890-2695-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	31444
890-2695-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31444

Client: Ensolum
Project/Site: EMSU Satellite Battery #10 (001)
SDG: 03C2077001

Client Sample ID: SS01

Lab Sample ID: 890-2701-1

Date Collected: 08/01/22 11:00 Matrix: Solid
Date Received: 08/01/22 15:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	31680	08/08/22 08:17	EL	EETSC MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	31685	08/08/22 19:35	MR	EETSC MIC
Total/NA	Analysis	Total BTEX		1			31869	08/09/22 16:38	SM	EETSC MIE
Total/NA	Analysis	8015 NM		1			31587	08/05/22 13:04	AJ	EETSC MII
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31439	08/03/22 15:56	DM	EETSC MIC
Total/NA	Analysis	8015B NM		1			31457	08/04/22 19:10	AJ	EETSC MIC
Soluble	Leach	DI Leach			5.02 g	50 mL	31444	08/03/22 17:00	SMC	EETSC MIC
Soluble	Analysis	300.0		1			31665	08/09/22 19:58	CH	EETSC MIL

Client Sample ID: SS02

Date Collected: 08/01/22 11:10

Lab Sample ID: 890-2701-2

Matrix: Solid

Date Received: 08/01/22 15:08

Date Received: 08/01/22 15:08

	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	31680	08/08/22 08:17	EL	EETSC MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	31685	08/08/22 19:55	MR	EETSC MIL
Total/NA	Analysis	Total BTEX		1			31869	08/09/22 16:38	SM	EETSC MIE
Total/NA	Analysis	8015 NM		1			31587	08/05/22 13:04	AJ	EETSC MIE
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31439	08/03/22 15:56	DM	EETSC MID
Total/NA	Analysis	8015B NM		1			31457	08/04/22 18:26	AJ	EETSC MIL
Soluble	Leach	DI Leach			5.02 g	50 mL	31444	08/03/22 17:00	SMC	EETSC MIL
Soluble	Analysis	300.0		1			31665	08/09/22 20:06	CH	EETSC MID

Client Sample ID: SS04

Date Collected: 08/01/22 11:30

Lab Sample ID: 890-2701-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	31680	08/08/22 08:17	EL	EETSC MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	31685	08/08/22 20:16	MR	EETSC MIC
Total/NA	Analysis	Total BTEX		1			31869	08/09/22 16:38	SM	EETSC MIC
Total/NA	Analysis	8015 NM		1			31587	08/05/22 13:04	AJ	EETSC MIE
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31439	08/03/22 15:56	DM	EETSC MIC
Total/NA	Analysis	8015B NM		1			31457	08/04/22 18:48	AJ	EETSC MIC
Soluble	Leach	DI Leach			4.97 g	50 mL	31444	08/03/22 17:00	SMC	EETSC MII
Soluble	Analysis	300.0		1			31665	08/09/22 20:14	CH	EETSC MIL

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2701-1 Project/Site: EMSU Satellite Battery #10 (001)

SDG: 03C2077001

Laboratory: Eurofins Midland

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

Authority		rogram	Identification Number	Expiration Date	
Texas		ELAP	T104704400-22-24	06-30-23	
The following analytes the agency does not of	. ,	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		

Method Summary

Client: Ensolum

Project/Site: EMSU Satellite Battery #10 (001)

Job ID: 890-2701-1 SDG: 03C2077001

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EETSC MID
Total BTEX	Total BTEX Calculation	TAL SOP	EETSC MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
800.0	Anions, Ion Chromatography	MCAWW	EETSC MID
5035	Closed System Purge and Trap	SW846	EETSC MID
8015NM Prep	Microextraction	SW846	EETSC MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	EETSC 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:

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

Sample Summary

Client: Ensolum

Project/Site: EMSU Satellite Battery #10 (001)

Job ID: 890-2701-1

SDG: 03C2077001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2701-1	SS01	Solid	08/01/22 11:00	08/01/22 15:08	0.5'
890-2701-2	SS02	Solid	08/01/22 11:10	08/01/22 15:08	0.5'
890-2701-3	SS04	Solid	08/01/22 11:30	08/01/22 15:08	0.5'

Relinquished by: (Signature)

rough

Received by: (Signature)

Date/Time (30)

Relinquished by: (Signature)

Received by: (Signature)

Revised Date 08/25/2020 Rev. 2020 2

eurofins

Phone: Project Name:

City, State ZIP:

Carlsbad, NM 88220 3122 National Parks HWY

Address: City, State ZIP:

Carlsbad, NM 88220 3122 National Parks HWY

Bill to: (if different) Company Name:

> Ensolum Tacoma Morrissey

SAMPLE RECEIPT

Sample Custody Seals:

Sampler's Name:

Project Location:

Project Number:

Project Manager:

Tacoma Morrissey

Company Name:

Ensolum

ddress:

Chain of Custody

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

Work Order No:
www.xenco.com Page (of /
Work Order Comments
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level III 🗍 Level III 🗎 PST/UST 🗍 TRRP 📗 Level IV 📗
Deliverables: EDD ☐ ADaPT ☐ Other:

hone: 337	337-257-8307		Email:	Email: tmorrissey@ensolum.com	@enso	um.cc	13			Deliverables. EDD []	ADAT - [] Culci.
roject Name:	EMSU Satellite Battery #10 (001)	10 (001)	Turn	Turn Around					ANALYSIS REQUEST	UEST	Preservative Codes
97.	03C2077001		☑ Routine	☐ Rush	Code	de .					None: NO DI Water: H ₂ O
roject Location:	Eunice		Due Date:	5 Day TAT	Í						⊻.
ampler's Name:	Gilbert Moreno		TAT starts the day received by	day received	by			_			
0#)	the lab, if rece	the lab, if received by 4:30pm	١						H ₂ SO ₄ : H ₂ NaOH: Na
AMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Fes No	nete	_					H ₃ PO ₄ : HP
amples Received Intact:	Yes No	hermometer ID:	r ID:	Trace	2						NaHSO ₄ : NABIS
ooler Custody Seals:	Yes No WA C	Correction Factor	actor:	-0.3							Na ₂ S ₂ O ₃ : NaSO ₃
ample Custody Seals:	Yes No /N/A/TI	Temperature Reading:	Reading:	5.8	_	 S (E	H	t	890-2701 Chain of Custody	stody	Zn Acetate+NaOH: Zn
otal Containers:	0	Corrected Temperature	emperature:	5.6	b	RIDE		8021			NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth Co	Grab/ # of Comp Cont	라 역 CHLOF	TPH (8	BTEX (Sample Comments
SS01	S 8	8.1.22	11:00	0.5' GI	Grab/ 1	×	×	×			Incident ID:
SS02	S 8	8.1.22	11:10	0.5' G	Grab/ 1	×	×	×			
SS04	S	8.1.22	11:30	0.5' G	Grab/ 1	×	×	×			
					_						Cost Center:
	2						1	\forall			
		e	22:		_						
	was my	2	\								
	A				+		+	+			
Total 200.7 / 6010	200.8 / 6020:	8	8RCRA 13PPM	PM Texas	Texas 11 Al		Sb As Ba	Ве В	Cd Ca Cr Co Cu Fe Pb	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	O ₂ Na Sr TI Sn U V Zn
ircle Method(s) and Metal(s) to be analyzed	fetal(s) to be analyze	d	TCLP / SI	PLP 6010:	8RCR	A Sb	As B	a Be	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo N	Ni Se Ag TI U Hg: 1	Hg: 1631 / 245.1 / 7470 / 7471
itice: Signature of this docur	ment and relinquishment of	samples cons	stitutes a valid p	ourchase order	from clie	nt comp	any to Eu	urofins)	o, its affiliates and subcontractors. curred by the client if such losses an	service. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	nrs itrol
Edionila Aelico. A illiminali	Chaige of 400.00 will be ab	piled to each	bi ofcor aira a or	g d	-				EMOIIIS ARIMO. A IIIIIIIIIIIIII chaige of spoots will be applied to each project and a smalle of section project and a smalle		
Relinquished by: (Signature)	ionature)	Received	Received by: (Signature)	ture)		Da	Date/Time	(D)	Relinquished by: (Signature)	re) Received by: (Signature)	gnature) Date/Time

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2701-1 SDG Number: 03C2077001

Login Number: 2701 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2701-1 SDG Number: 03C2077001

Login Number: 2701 **List Source: Eurofins Midland** List Creation: 08/03/22 10:15 AM

Creator: Rodriguez, Leticia

List Number: 2

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3015-1

Laboratory Sample Delivery Group: 03C2077001 Client Project/Site: EMSU Satellite Battery #10

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Tacoma Morrissey

RAMER

10/3/2022 2:28:10 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: EMSU Satellite Battery #10

Laboratory Jo

Laboratory Job ID: 890-3015-1 SDG: 03C2077001

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Definitions/Glossary

Job ID: 890-3015-1 Client: Ensolum Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Qualifiers

GC VOA

Qualifier **Qualifier Description** LCS and/or LCSD is outside acceptance limits, high biased.

*1 LCS/LCSD RPD exceeds control limits.

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

%R

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

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

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

Percent Recovery

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

Minimum Detectable Concentration (Radiochemistry) MDC

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-3015-1 Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Job ID: 890-3015-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3015-1

Receipt

The samples were received on 9/20/2022 3:18 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 5.8°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH02 (890-3015-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-35724 and analytical batch 880-35890 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-35172 and analytical batch 880-35220 was outside the upper control limits.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35175 and 880-35175 and analytical batch 880-35309 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Lab Sample ID: 890-3015-1

Client Sample Results

Client: Ensolum Job ID: 890-3015-1 Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Client Sample ID: PH01

Date Collected: 09/20/22 09:00 Date Received: 09/20/22 15:18

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 09:20	1
Toluene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 09:20	1
Ethylbenzene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 09:20	1
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.00401	mg/Kg		09/29/22 16:18	10/03/22 09:20	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 09:20	1
Xylenes, Total	<0.00401	U *+ *1	0.00401	mg/Kg		09/29/22 16:18	10/03/22 09:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			09/29/22 16:18	10/03/22 09:20	1
1,4-Difluorobenzene (Surr)	91		70 - 130			09/29/22 16:18	10/03/22 09:20	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/03/22 15:02	1
Analyte Total TPH	Result 65.5	Qualifier	RL 49.9	Unit mg/Kg	D	Prepared	Analyzed 09/26/22 13:20	Dil Fa
-	00.0		.0.0	9/.19			33/23/22 13:23	•
Method: 8015B NM - Diesel Rang								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/22/22 11:26	09/23/22 22:45	1
Diesel Range Organics (Over C10-C28)	65.5		49.9	mg/Kg		09/22/22 11:26	09/23/22 22:45	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/22/22 11:26	09/23/22 22:45	1
		Qualifier	Limits			Prepared	Analyzed	
Surrogate	%Recovery	Qualifier						Dil Fac
Surrogate 1-Chlorooctane		Quaimer	70 - 130			09/22/22 11:26	09/23/22 22:45	
		Quanner	70 - 130 70 - 130			09/22/22 11:26 09/22/22 11:26	09/23/22 22:45 09/23/22 22:45	1
1-Chlorooctane o-Terphenyl	97 105 omatography -	Soluble						1
1-Chlorooctane	97 105 omatography -				<u>D</u>			Dil Fac

Client Sample ID: PH01A

Date Collected: 09/20/22 09:20 Date Received: 09/20/22 15:18

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 09:41	1
Toluene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 09:41	1
Ethylbenzene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 09:41	1
m-Xylene & p-Xylene	<0.00399	U *+ *1	0.00399	mg/Kg		09/29/22 16:18	10/03/22 09:41	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 09:41	1
Xylenes, Total	<0.00399	U *+ *1	0.00399	mg/Kg		09/29/22 16:18	10/03/22 09:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/29/22 16:18	10/03/22 09:41	

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Lab Sample ID: 890-3015-2

Matrix: Solid

Lab Sample ID: 890-3015-2

Client Sample Results

Client: Ensolum Job ID: 890-3015-1 Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Client Sample ID: PH01A

Date Collected: 09/20/22 09:20 Date Received: 09/20/22 15:18

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
Method. 002 1D - Volatile Organic Compounds	(OO) (Oolillillided)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	09/29/22 16:18	10/03/22 09:41	1

Method:	Total	BTFX	- Total	BTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/03/22 15:02	1

-				
	Method: 8015 NM - Diesel	Danes Oreanias		
	- wethod: outs nw - Diesei	Range Organics	(DRO) (5 61

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/26/22 13:20	1

Mothod: 901ED	NM Diocol	Pango Ore	aniec /	DBO	(CC)
Method: 8015B	MINI - DIESEI	Range Org	janics (DRO	(GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/22/22 11:26	09/23/22 23:07	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/22/22 11:26	09/23/22 23:07	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/22 11:26	09/23/22 23:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	09/22/22 11:26	09/23/22 23:07	1
o-Terphenyl	102		70 - 130	09/22/22 11:26	09/23/22 23:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.9	4.99	mg/Kg			09/24/22 21:48	1

Client Sample ID: PH02 Lab Sample ID: 890-3015-3 Matrix: Solid

Date Collected: 09/20/22 09:25 Date Received: 09/20/22 15:18

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+ *1	0.00199	mg/Kg		09/29/22 16:18	10/03/22 10:01	1
Toluene	<0.00199	U *+ *1	0.00199	mg/Kg		09/29/22 16:18	10/03/22 10:01	1
Ethylbenzene	< 0.00199	U *+ *1	0.00199	mg/Kg		09/29/22 16:18	10/03/22 10:01	1
m-Xylene & p-Xylene	<0.00398	U *+ *1	0.00398	mg/Kg		09/29/22 16:18	10/03/22 10:01	1
o-Xylene	< 0.00199	U *+ *1	0.00199	mg/Kg		09/29/22 16:18	10/03/22 10:01	1
Xylenes, Total	<0.00398	U *+ *1	0.00398	mg/Kg		09/29/22 16:18	10/03/22 10:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			09/29/22 16:18	10/03/22 10:01	1
1,4-Difluorobenzene (Surr)	113		70 - 130			09/29/22 16:18	10/03/22 10:01	1

ı						
ı	Mothod	Total	DTEV	Total	DTEV	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	ma/Ka			10/03/22 15:02	1

Analyte	•	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0	mg/Kg			09/26/22 13:20	1

Job ID: 890-3015-1

Client: Ensolum Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Client Sample ID: PH02

Sample Depth: 0.5

Lab Sample ID: 890-3015-3 Date Collected: 09/20/22 09:25 Matrix: Solid Date Received: 09/20/22 15:18

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/22/22 11:27	09/23/22 23:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/22/22 11:27	09/23/22 23:28	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/22 11:27	09/23/22 23:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			09/22/22 11:27	09/23/22 23:28	
o-Terphenyl	78		70 - 130			09/22/22 11:27	09/23/22 23:28	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.7		5.02	mg/Kg			09/24/22 21:53	1

Lab Sample ID: 890-3015-4 Client Sample ID: PH02A Date Collected: 09/20/22 09:45 Matrix: Solid

Date Received: 09/20/22 15:18

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+ *1	0.00201	mg/Kg		09/29/22 16:18	10/03/22 10:22	1
Toluene	<0.00201	U *+ *1	0.00201	mg/Kg		09/29/22 16:18	10/03/22 10:22	1
Ethylbenzene	<0.00201	U *+ *1	0.00201	mg/Kg		09/29/22 16:18	10/03/22 10:22	1
m-Xylene & p-Xylene	<0.00402	U *+ *1	0.00402	mg/Kg		09/29/22 16:18	10/03/22 10:22	1
o-Xylene	<0.00201	U *+ *1	0.00201	mg/Kg		09/29/22 16:18	10/03/22 10:22	1
Xylenes, Total	<0.00402	U *+ *1	0.00402	mg/Kg		09/29/22 16:18	10/03/22 10:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			09/29/22 16:18	10/03/22 10:22	1
1,4-Difluorobenzene (Surr)	101		70 - 130			09/29/22 16:18	10/03/22 10:22	1
- Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/03/22 15:02	1
•								
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
•	•	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/26/22 13:20	Dil Fac
Analyte	Result <49.9	Qualifier U	· <u> </u>		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9 ge Organics (D	Qualifier U	· <u> </u>		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier	49.9	mg/Kg			09/26/22 13:20	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	49.9	mg/Kg		Prepared	09/26/22 13:20 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 11:27	09/26/22 13:20 Analyzed 09/23/22 23:50	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 ge Organics (D Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9	mg/Kg Unit mg/Kg		Prepared 09/22/22 11:27	09/26/22 13:20 Analyzed 09/23/22 23:50	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 11:27	09/26/22 13:20 Analyzed 09/23/22 23:50 09/23/22 23:50	
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 11:27 09/22/22 11:27	09/26/22 13:20 Analyzed 09/23/22 23:50 09/23/22 23:50 09/23/22 23:50	Dil Fac

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Lab Sample ID: 890-3015-4

Client Sample Results

Client: Ensolum
Project/Site: EMSU Satellite Battery #10
SDG: 03C2077001

Client Sample ID: PH02A

Date Collected: 09/20/22 09:45 Date Received: 09/20/22 15:18

Sample Depth: 4

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.3		5.05	mg/Kg			09/24/22 21:59	1

Client Sample ID: PH03

Date Collected: 09/20/22 09:55

Lab Sample ID: 890-3015-5

Matrix: Solid

Date Collected: 09/20/22 09:55 Date Received: 09/20/22 15:18

Released to Imaging: 11/22/2022 11:02:59 AM

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 10:43	1
Toluene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 10:43	1
Ethylbenzene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 10:43	1
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.00401	mg/Kg		09/29/22 16:18	10/03/22 10:43	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 10:43	1
Xylenes, Total	<0.00401	U *+ *1	0.00401	mg/Kg		09/29/22 16:18	10/03/22 10:43	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			09/29/22 16:18	10/03/22 10:43	1
1,4-Difluorobenzene (Surr)	107		70 - 130			09/29/22 16:18	10/03/22 10:43	1
· Method: Total BTEX - Total BTE)	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/03/22 15:02	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/26/22 13:20	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/22/22 11:27	09/24/22 00:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/22/22 11:27	09/24/22 00:12	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/22/22 11:27	09/24/22 00:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			09/22/22 11:27	09/24/22 00:12	1
o-Terphenyl	115		70 - 130			09/22/22 11:27	09/24/22 00:12	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	748		5.05	mg/Kg			09/24/22 22:04	1

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Lab Sample ID: 890-3015-6

Client Sample Results

Client: Ensolum
Project/Site: EMSU Satellite Battery #10
SDG: 03C2077001

Client Sample ID: PH03A

Date Collected: 09/20/22 10:10 Date Received: 09/20/22 15:18

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+ *1	0.00199	mg/Kg		09/29/22 16:18	10/03/22 11:03	1
Toluene	< 0.00199	U *+ *1	0.00199	mg/Kg		09/29/22 16:18	10/03/22 11:03	1
Ethylbenzene	< 0.00199	U *+ *1	0.00199	mg/Kg		09/29/22 16:18	10/03/22 11:03	1
m-Xylene & p-Xylene	<0.00398	U *+ *1	0.00398	mg/Kg		09/29/22 16:18	10/03/22 11:03	1
o-Xylene	< 0.00199	U *+ *1	0.00199	mg/Kg		09/29/22 16:18	10/03/22 11:03	1
Xylenes, Total	<0.00398	U *+ *1	0.00398	mg/Kg		09/29/22 16:18	10/03/22 11:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			09/29/22 16:18	10/03/22 11:03	
1,4-Difluorobenzene (Surr)	105		70 - 130			09/29/22 16:18	10/03/22 11:03	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/03/22 15:02	1
_	e Organics (DR	O) (GC)						
_		O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/26/22 13:20	
Analyte Total TPH		Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0 ge Organics (Diameter)	Qualifier U RO) (GC)	50.0	mg/Kg	<u> </u>		09/26/22 13:20	1
Analyte Total TPH Method: 8015B NM - Diesel Rangen	Result <50.0 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg	<u>D</u>	Prepared	09/26/22 13:20 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 ge Organics (Diameter)	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg	<u> </u>		09/26/22 13:20	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0	mg/Kg	<u> </u>	Prepared	09/26/22 13:20 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/22/22 11:27	09/26/22 13:20 Analyzed 09/24/22 00:33	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/22/22 11:27	09/26/22 13:20 Analyzed 09/24/22 00:33 09/24/22 00:33	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/22/22 11:27 09/22/22 11:27	09/26/22 13:20 Analyzed 09/24/22 00:33 09/24/22 00:33	Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/22/22 11:27 09/22/22 11:27 09/22/22 11:27 Prepared	Analyzed 09/24/22 00:33 09/24/22 00:33 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/22/22 11:27 09/22/22 11:27 09/22/22 11:27 Prepared 09/22/22 11:27	09/26/22 13:20 Analyzed 09/24/22 00:33 09/24/22 00:33 Analyzed 09/24/22 00:33	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/22/22 11:27 09/22/22 11:27 09/22/22 11:27 Prepared 09/22/22 11:27	09/26/22 13:20 Analyzed 09/24/22 00:33 09/24/22 00:33 Analyzed 09/24/22 00:33	Dil Fac

Client Sample ID: PH04

Date Collected: 09/20/22 10:15 Date Received: 09/20/22 15:18

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 11:24	1
Toluene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 11:24	1
Ethylbenzene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 11:24	1
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.00401	mg/Kg		09/29/22 16:18	10/03/22 11:24	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		09/29/22 16:18	10/03/22 11:24	1
Xylenes, Total	<0.00401	U *+ *1	0.00401	mg/Kg		09/29/22 16:18	10/03/22 11:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			09/29/22 16:18	10/03/22 11:24	1

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Lab Sample ID: 890-3015-7

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Matrix: Solid

Client: Ensolum Job ID: 890-3015-1

Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Client Sample ID: PH04 Lab Sample ID: 890-3015-7 Date Collected: 09/20/22 10:15 Matrix: Solid

Date Received: 09/20/22 15:18 Sample Depth: 0.5

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
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Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102	70 - 130	09/29/22 16:18	10/03/22 11:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/03/22 15:02	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			09/26/22 13:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/22/22 11:27	09/24/22 00:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/22/22 11:27	09/24/22 00:55	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/22/22 11:27	09/24/22 00:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95	70 - 130	09/22/22 11	27 09/24/22 00:55	1
o-Terphenyl	94	70 - 130	09/22/22 11	27 09/24/22 00:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.49	4.96	mg/Kg			09/24/22 22:26	1

Client Sample ID: PH04A Lab Sample ID: 890-3015-8 **Matrix: Solid**

Date Collected: 09/20/22 10:35 Date Received: 09/20/22 15:18

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+ *1	0.00201	mg/Kg		09/29/22 16:18	10/03/22 11:45	1
Toluene	<0.00201	U *+ *1	0.00201	mg/Kg		09/29/22 16:18	10/03/22 11:45	1
Ethylbenzene	<0.00201	U *+ *1	0.00201	mg/Kg		09/29/22 16:18	10/03/22 11:45	1
m-Xylene & p-Xylene	<0.00402	U *+ *1	0.00402	mg/Kg		09/29/22 16:18	10/03/22 11:45	1
o-Xylene	<0.00201	U *+ *1	0.00201	mg/Kg		09/29/22 16:18	10/03/22 11:45	1
Xylenes, Total	<0.00402	U *+ *1	0.00402	mg/Kg		09/29/22 16:18	10/03/22 11:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			09/29/22 16:18	10/03/22 11:45	1
1,4-Difluorobenzene (Surr)	100		70 - 130			09/29/22 16:18	10/03/22 11:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	ma/Ka			10/03/22 15:02	1

Analyte	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		 <49.9	U	49.9	mg/Kg			09/26/22 13:20	1

Lab Sample ID: 890-3015-8

Client Sample Results

Client: Ensolum
Project/Site: EMSU Satellite Battery #10
SDG: 03C2077001

Client Sample ID: PH04A

Date Collected: 09/20/22 10:35 Date Received: 09/20/22 15:18

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		09/22/22 11:27	09/24/22 01:17	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		09/22/22 11:27	09/24/22 01:17	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/22/22 11:27	09/24/22 01:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			09/22/22 11:27	09/24/22 01:17	1
o-Terphenyl	113		70 - 130			09/22/22 11:27	09/24/22 01:17	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte								

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Surrogate Summary

Client: Ensolum

Project/Site: EMSU Satellite Battery #10

SDG: 03C2077001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-3015-1	PH01	116	91	
390-3015-1 MS	PH01	101	94	
390-3015-1 MSD	PH01	108	107	
390-3015-2	PH01A	122	101	
390-3015-3	PH02	133 S1+	113	
890-3015-4	PH02A	127	101	
390-3015-5	PH03	126	107	
390-3015-6	PH03A	129	105	
390-3015-7	PH04	128	102	
390-3015-8	PH04A	123	100	
LCS 880-35724/1-A	Lab Control Sample	76	73	
LCSD 880-35724/2-A	Lab Control Sample Dup	128	123	
MB 880-35692/5-A	Method Blank	99	83	
MB 880-35724/5-A	Method Blank	100	76	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3010-A-2-C MS	Matrix Spike	90	88	
890-3010-A-2-D MSD	Matrix Spike Duplicate	103	99	
890-3015-1	PH01	97	105	
890-3015-2	PH01A	95	102	
890-3015-3	PH02	80	78	
890-3015-4	PH02A	92	99	
890-3015-5	PH03	110	115	
890-3015-6	PH03A	102	109	
890-3015-7	PH04	95	94	
890-3015-8	PH04A	107	113	
LCS 880-35172/2-A	Lab Control Sample	99	105	
LCSD 880-35172/3-A	Lab Control Sample Dup	106	108	
MB 880-35172/1-A	Method Blank	120	139 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3015-1 SDG: 03C2077001 Project/Site: EMSU Satellite Battery #10

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35692/5-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35692

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/22 11:56	10/02/22 22:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/22 11:56	10/02/22 22:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/22 11:56	10/02/22 22:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/29/22 11:56	10/02/22 22:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/22 11:56	10/02/22 22:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/29/22 11:56	10/02/22 22:18	1

MB MB

мв мв

Surrogate	%Recovery Qua	lifier Limits	
4-Bromofluorobenzene (Surr)	99	70 - 130	
1,4-Difluorobenzene (Surr)	83	70 - 130	

Dil Fac Prepared Analyzed 09/29/22 11:56 10/02/22 22:18 09/29/22 11:56 10/02/22 22:18

Lab Sample ID: MB 880-35724/5-A

Matrix: Solid

Analysis Batch: 35890

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

Prep Batch: 35724

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/22 16:18	10/03/22 08:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/22 16:18	10/03/22 08:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/22 16:18	10/03/22 08:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/29/22 16:18	10/03/22 08:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/22 16:18	10/03/22 08:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/29/22 16:18	10/03/22 08:58	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/29/2	22 16:18	10/03/22 08:58	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/29/2	22 16:18	10/03/22 08:58	1

Lab Sample ID: LCS 880-35724/1-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 35724

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07829		mg/Kg		78	70 - 130	
Toluene	0.100	0.08089		mg/Kg		81	70 - 130	
Ethylbenzene	0.100	0.07734		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	0.200	0.1621		mg/Kg		81	70 - 130	
o-Xylene	0.100	0.08300		mg/Kg		83	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	76	70 - 130
1,4-Difluorobenzene (Surr)	73	70 - 130

Lab Sample ID: LCSD 880-35724/2-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Lab	Control Sample Dup
	Date of Taxable Taxable I/NIA

Prep Type: Total/NA

Prep Batch: 35724

	Бріке	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1318 *+ *1	mg/Kg		132	70 - 130	51	35

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QC Sample Results

Client: Ensolum Job ID: 890-3015-1 SDG: 03C2077001 Project/Site: EMSU Satellite Battery #10

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

Lab Sample ID: LCSD 880-35724/2-A

Matrix: Solid Analysis Batch: 35890

Prep Type: Total/NA Prep Batch: 35724

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1408	*+ *1	mg/Kg		141	70 - 130	54	35
Ethylbenzene	0.100	0.1312	*+ *1	mg/Kg		131	70 - 130	52	35
m-Xylene & p-Xylene	0.200	0.2759	*+ *1	mg/Kg		138	70 - 130	52	35
o-Xylene	0.100	0.1422	*+ *1	mg/Kg		142	70 - 130	53	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: 890-3015-1 MS

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: PH01 Prep Type: Total/NA

Prep Batch: 35724

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *+ *1	0.0998	0.09073		mg/Kg		91	70 - 130	
Toluene	<0.00200	U *+ *1	0.0998	0.09593		mg/Kg		96	70 - 130	
Ethylbenzene	<0.00200	U *+ *1	0.0998	0.08487		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.200	0.1756		mg/Kg		88	70 - 130	
o-Xylene	<0.00200	U *+ *1	0.0998	0.09418		mg/Kg		94	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: 890-3015-1 MSD

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: PH01

Prep Type: Total/NA Prep Batch: 35724

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U *+ *1	0.0990	0.09916		mg/Kg		100	70 - 130	9	35
Toluene	<0.00200	U *+ *1	0.0990	0.1009		mg/Kg		102	70 - 130	5	35
Ethylbenzene	<0.00200	U *+ *1	0.0990	0.08894		mg/Kg		90	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.198	0.1820		mg/Kg		92	70 - 130	4	35
o-Xylene	<0.00200	U *+ *1	0.0990	0.09773		mg/Kg		99	70 - 130	4	35

MSD MSD

Surroyate	76Recovery	Qualifier	Lillits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-35172/1-A

Matrix: Solid

Analysis Batch: 35220

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

Prep Batch: 35172

мв мв Result Qualifier Unit Prepared <50.0 U 50.0 mg/Kg 09/22/22 11:26 09/23/22 20:35 Gasoline Range Organics

(GRO)-C6-C10

Client: Ensolum Job ID: 890-3015-1 SDG: 03C2077001 Project/Site: EMSU Satellite Battery #10

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

Lab Sample ID: MB 880-35172/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-35172/2-A

Lab Sample ID: LCSD 880-35172/3-A

Matrix: Solid

Analysis Batch: 35220

Analysis Batch: 35220

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35172

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/22/22 11:26	09/23/22 20:35	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/22 11:26	09/23/22 20:35	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	09/22/22 11:26	09/23/22 20:35	1
o-Terphenyl	139	S1+	70 - 130	09/22/22 11:26	09/23/22 20:35	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35172

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	960.3		mg/Kg	_	96	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	891.9		mg/Kg		89	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	105		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 35220 Prep Batch: 35172

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	960.5		mg/Kg		96	70 - 130	0	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	951.2		mg/Kg		95	70 - 130	6	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 106 70 - 130 o-Terphenyl 108 70 - 130

Lab Sample ID: 890-3010-A-2-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 35220 Prep Batch: 35172

		Sample	Sample	Бріке	IVIS	IVIS				%Rec		
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
	Gasoline Range Organics	<49.9	U	996	887.9		mg/Kg		87	70 - 130		_
	(GRO)-C6-C10											
	Diesel Range Organics (Over	<49.9	U	996	998.1		mg/Kg		100	70 - 130		
ı	0.40, 0.00\											

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	88		70 - 130

Job ID: 890-3015-1

Client: Ensolum SDG: 03C2077001 Project/Site: EMSU Satellite Battery #10

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

Lab Sample ID: 890-3010-A-2-D MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 35220	Prep Batch: 35172

		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Gasoline Range Organics	<49.9	U	999	1050		mg/Kg		103	70 - 130	17	20
	(GRO)-C6-C10											
١	Diesel Range Organics (Over	<49.9	U	999	1135		mg/Kg		114	70 - 130	13	20
١	C10-C28)											

MSD MSD %Recovery Qualifier Limits Surrogate

1-Chlorooctane 70 - 130 103 o-Terphenyl 99 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35175/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 35309

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/24/22 21:16	1

Lab Sample ID: LCS 880-35175/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 35309

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	273.5	-	mg/Kg		109	90 - 110	 ·

Lab Sample ID: LCSD 880-35175/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 35309

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	266.4		mg/Kg	_	107	90 - 110	3	20	

Lab Sample ID: 890-3015-1 MS **Client Sample ID: PH01 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 35309

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1470	F1	1250	2790		ma/Ka		106	90 110	

Lab Sample ID: 890-3015-1 MSD **Client Sample ID: PH01 Prep Type: Soluble**

Matrix: Solid Analysis Batch: 35309

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1470	F1	1250	2906	F1	mg/Kg		115	90 - 110	4	20

QC Association Summary

Client: Ensolum
Project/Site: EMSU Satellite Battery #10

Job ID: 890-3015-1 SDG: 03C2077001

GC VOA

Prep Batch: 35692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35692/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 35724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3015-1	PH01	Total/NA	Solid	5035	
890-3015-2	PH01A	Total/NA	Solid	5035	
890-3015-3	PH02	Total/NA	Solid	5035	
890-3015-4	PH02A	Total/NA	Solid	5035	
890-3015-5	PH03	Total/NA	Solid	5035	
890-3015-6	PH03A	Total/NA	Solid	5035	
890-3015-7	PH04	Total/NA	Solid	5035	
890-3015-8	PH04A	Total/NA	Solid	5035	
MB 880-35724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3015-1 MS	PH01	Total/NA	Solid	5035	
890-3015-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 35890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3015-1	PH01	Total/NA	Solid	8021B	35724
890-3015-2	PH01A	Total/NA	Solid	8021B	35724
890-3015-3	PH02	Total/NA	Solid	8021B	35724
890-3015-4	PH02A	Total/NA	Solid	8021B	35724
890-3015-5	PH03	Total/NA	Solid	8021B	35724
890-3015-6	PH03A	Total/NA	Solid	8021B	35724
890-3015-7	PH04	Total/NA	Solid	8021B	35724
890-3015-8	PH04A	Total/NA	Solid	8021B	35724
MB 880-35692/5-A	Method Blank	Total/NA	Solid	8021B	35692
MB 880-35724/5-A	Method Blank	Total/NA	Solid	8021B	35724
LCS 880-35724/1-A	Lab Control Sample	Total/NA	Solid	8021B	35724
LCSD 880-35724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35724
890-3015-1 MS	PH01	Total/NA	Solid	8021B	35724
890-3015-1 MSD	PH01	Total/NA	Solid	8021B	35724

Analysis Batch: 36010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3015-1	PH01	Total/NA	Solid	Total BTEX	
890-3015-2	PH01A	Total/NA	Solid	Total BTEX	
890-3015-3	PH02	Total/NA	Solid	Total BTEX	
890-3015-4	PH02A	Total/NA	Solid	Total BTEX	
890-3015-5	PH03	Total/NA	Solid	Total BTEX	
890-3015-6	PH03A	Total/NA	Solid	Total BTEX	
890-3015-7	PH04	Total/NA	Solid	Total BTEX	
890-3015-8	PH04A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 35172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3015-1	PH01	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum Job ID: 890-3015-1
Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

GC Semi VOA (Continued)

Prep Batch: 35172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3015-2	PH01A	Total/NA	Solid	8015NM Prep	
890-3015-3	PH02	Total/NA	Solid	8015NM Prep	
890-3015-4	PH02A	Total/NA	Solid	8015NM Prep	
890-3015-5	PH03	Total/NA	Solid	8015NM Prep	
890-3015-6	PH03A	Total/NA	Solid	8015NM Prep	
890-3015-7	PH04	Total/NA	Solid	8015NM Prep	
890-3015-8	PH04A	Total/NA	Solid	8015NM Prep	
MB 880-35172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3010-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3010-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3015-1	PH01	Total/NA	Solid	8015B NM	35172
890-3015-2	PH01A	Total/NA	Solid	8015B NM	35172
890-3015-3	PH02	Total/NA	Solid	8015B NM	35172
890-3015-4	PH02A	Total/NA	Solid	8015B NM	35172
890-3015-5	PH03	Total/NA	Solid	8015B NM	35172
890-3015-6	PH03A	Total/NA	Solid	8015B NM	35172
890-3015-7	PH04	Total/NA	Solid	8015B NM	35172
890-3015-8	PH04A	Total/NA	Solid	8015B NM	35172
MB 880-35172/1-A	Method Blank	Total/NA	Solid	8015B NM	35172
LCS 880-35172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35172
LCSD 880-35172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35172
890-3010-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	35172
890-3010-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35172

Analysis Batch: 35413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3015-1	PH01	Total/NA	Solid	8015 NM	
890-3015-2	PH01A	Total/NA	Solid	8015 NM	
890-3015-3	PH02	Total/NA	Solid	8015 NM	
890-3015-4	PH02A	Total/NA	Solid	8015 NM	
890-3015-5	PH03	Total/NA	Solid	8015 NM	
890-3015-6	PH03A	Total/NA	Solid	8015 NM	
890-3015-7	PH04	Total/NA	Solid	8015 NM	
890-3015-8	PH04A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3015-1	PH01	Soluble	Solid	DI Leach	
890-3015-2	PH01A	Soluble	Solid	DI Leach	
890-3015-3	PH02	Soluble	Solid	DI Leach	
890-3015-4	PH02A	Soluble	Solid	DI Leach	
890-3015-5	PH03	Soluble	Solid	DI Leach	
890-3015-6	PH03A	Soluble	Solid	DI Leach	
890-3015-7	PH04	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: EMSU Satellite Battery #10
SDG: 03C2077001

HPLC/IC (Continued)

Leach Batch: 35175 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3015-8	PH04A	Soluble	Solid	DI Leach	
MB 880-35175/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35175/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35175/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3015-1 MS	PH01	Soluble	Solid	DI Leach	
890-3015-1 MSD	PH01	Soluble	Solid	DI Leach	

Analysis Batch: 35309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3015-1	PH01	Soluble	Solid	300.0	35175
890-3015-2	PH01A	Soluble	Solid	300.0	35175
890-3015-3	PH02	Soluble	Solid	300.0	35175
890-3015-4	PH02A	Soluble	Solid	300.0	35175
890-3015-5	PH03	Soluble	Solid	300.0	35175
890-3015-6	PH03A	Soluble	Solid	300.0	35175
890-3015-7	PH04	Soluble	Solid	300.0	35175
890-3015-8	PH04A	Soluble	Solid	300.0	35175
MB 880-35175/1-A	Method Blank	Soluble	Solid	300.0	35175
LCS 880-35175/2-A	Lab Control Sample	Soluble	Solid	300.0	35175
LCSD 880-35175/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35175
890-3015-1 MS	PH01	Soluble	Solid	300.0	35175
890-3015-1 MSD	PH01	Soluble	Solid	300.0	35175

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Client: Ensolum

Job ID: 890-3015-1

Project/Site: EMSU Satellite Battery #10

SDG: 03C2077001

Client Sample ID: PH01

Date Collected: 09/20/22 09:00

Lab Sample ID: 890-3015-1

Matrix: Solid

Date Collected: 09/20/22 09:00

Date Received: 09/20/22 15:18

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35724	09/29/22 16:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35890	10/03/22 09:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36010	10/03/22 15:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			35413	09/26/22 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/23/22 22:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35175	09/22/22 12:03	SMC	EET MID
Soluble	Analysis	300.0		5			35309	09/24/22 21:32	CH	EET MID

Client Sample ID: PH01A

Date Collected: 09/20/22 09:20

Lab Sample ID: 890-3015-2

Matrix: Solid

Date Received: 09/20/22 15:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35724	09/29/22 16:18	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	35890	10/03/22 09:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36010	10/03/22 15:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			35413	09/26/22 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/23/22 23:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35175	09/22/22 12:03	SMC	EET MIC
Soluble	Analysis	300.0		1			35309	09/24/22 21:48	CH	EET MID

Client Sample ID: PH02

Date Collected: 09/20/22 09:25

Lab Sample ID: 890-3015-3

Matrix: Solid

Date Received: 09/20/22 15:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35724	09/29/22 16:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35890	10/03/22 10:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36010	10/03/22 15:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			35413	09/26/22 13:20	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35172	09/22/22 11:27	DM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/23/22 23:28	SM	EET MIC
Soluble	Leach	DI Leach			4.98 g	50 mL	35175	09/22/22 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			35309	09/24/22 21:53	CH	EET MID

Client Sample ID: PH02A

Date Collected: 09/20/22 09:45

Lab Sample ID: 890-3015-4

Matrix: Solid

Date Received: 09/20/22 15:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35724	09/29/22 16:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35890	10/03/22 10:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36010	10/03/22 15:02	SM	EET MID

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Client: Ensolum Project/Site: EMSU Satellite Battery #10

Job ID: 890-3015-1

SDG: 03C2077001

Client Sample ID: PH02A

Date Collected: 09/20/22 09:45 Date Received: 09/20/22 15:18 Lab Sample ID: 890-3015-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35413	09/26/22 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35172	09/22/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/23/22 23:50	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	35175	09/22/22 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			35309	09/24/22 21:59	CH	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-3015-5

Date Collected: 09/20/22 09:55 Date Received: 09/20/22 15:18

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35724	09/29/22 16:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35890	10/03/22 10:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36010	10/03/22 15:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			35413	09/26/22 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35172	09/22/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 00:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	35175	09/22/22 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			35309	09/24/22 22:04	CH	EET MID

Client Sample ID: PH03A Lab Sample ID: 890-3015-6

Date Collected: 09/20/22 10:10 Date Received: 09/20/22 15:18

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35724	09/29/22 16:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35890	10/03/22 11:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36010	10/03/22 15:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			35413	09/26/22 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35172	09/22/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 00:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35175	09/22/22 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			35309	09/24/22 22:21	CH	EET MID

Client Sample ID: PH04 Lab Sample ID: 890-3015-7

Date Collected: 09/20/22 10:15 Date Received: 09/20/22 15:18

	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	35724	09/29/22 16:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35890	10/03/22 11:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36010	10/03/22 15:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			35413	09/26/22 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35172	09/22/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 00:55	SM	EET MID

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Matrix: Solid

Client: Ensolum

Project/Site: EMSU Satellite Battery #10

SDG: 03C2077001

Client Sample ID: PH04 Lab Sample ID: 890-3015-7

Date Collected: 09/20/22 10:15
Date Received: 09/20/22 15:18
Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	35175	09/22/22 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			35309	09/24/22 22:26	CH	EET MID

Client Sample ID: PH04A Lab Sample ID: 890-3015-8

Date Collected: 09/20/22 10:35 Matrix: Solid

Date Received: 09/20/22 15:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35724	09/29/22 16:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35890	10/03/22 11:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36010	10/03/22 15:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			35413	09/26/22 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35172	09/22/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 01:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35175	09/22/22 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			35309	09/24/22 22:31	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: EMSU Satellite Battery #10
SDG: 03C2077001

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-24	06-30-23	
The following analytes	are included in this report, bu	t the laboratory is not cortifi	ed by the governing authority. This list ma	vindudo analytas for	
the agency does not of	· '	it the laboratory is not certiling	ed by the governing admonty. This list his	ay include arialytes for	
0 ,	· '	Matrix	Analyte	ay include analytes for	
the agency does not of	fer certification.	,	, , ,		

Method Summary

Client: Ensolum

Project/Site: EMSU Satellite Battery #10

Job ID: 890-3015-1 SDG: 03C2077001

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: EMSU Satellite Battery #10

Job ID: 890-3015-1

SDG: 03C2077001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3015-1	PH01	Solid	09/20/22 09:00	09/20/22 15:18	0.5
890-3015-2	PH01A	Solid	09/20/22 09:20	09/20/22 15:18	4
890-3015-3	PH02	Solid	09/20/22 09:25	09/20/22 15:18	0.5
890-3015-4	PH02A	Solid	09/20/22 09:45	09/20/22 15:18	4
890-3015-5	PH03	Solid	09/20/22 09:55	09/20/22 15:18	1
890-3015-6	PH03A	Solid	09/20/22 10:10	09/20/22 15:18	4
890-3015-7	PH04	Solid	09/20/22 10:15	09/20/22 15:18	0.5
890-3015-8	PH04A	Solid	09/20/22 10:35	09/20/22 15:18	4

13 14

eurofins: **Environment Testing**

Phone:

303-887-2946 Carlsbad, NM 88220

Email: tmorrissey@ensolum.com

shyde@ensolum.com

ANALYSIS RE

HCL: HC Cool: Cool

MeOH: Me HNO₃: HN NaOH: Na

None: NO

DI Water: H₂O

City, State ZIP:

EMSU Satellite Battery #10

Turn Around

Rush

03C2077001

City, State ZIP:

ddress:

3122 National Parks Hwy

Project Manager: Company Name:

Tacoma Morrissey

Bill to: (if different)

Tacoma Morrissey

Company Name:

SAMPLE RECEIPT

Temp Blank: es

Yes No

Wet Ice:

Yes No

Parameters

S 0

Thermometer ID: Correction Factor:

MM OOT

0.0

Ö

CHLORIDES (EPA: 300.0)

890-3015 Chain of Custody

Samples Received Intact:

Cooler Custody Seals:

Yes No NA Yes No

NA

Temperature Reading:

Corrected Temperature:

S

ample Custody Seals:

Sample Identification

Matrix

Sampled

Sampled

Comp Grab/

Cont # of

TPH (8015)

BTEX (8021

Date

Time

9/20/2022

9:00

0.5 Depth

9:20

PH03A

တ S

9/20/2022 9/20/2022

10:15 10:10

0.5

10:35

S ഗ ഗ S

9/20/2022

9.55

AFE:

Cost Center NAPP2223850551 ncident ID:

PH02A

PH02

9/20/2022 9/20/2022

9:25

0.5

9/20/2022

9:45

PH03

PH01A

PH01

PHO4*

PH04

Sampler's Name:

Project Location: Project Number: Project Name:

32.481208, -103.273891

Due Date: ✓ Routine

TAT starts the day received by the lab, if received by 4:30pm

Kase Parker

Chain of Custody

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

OUEST Preservative Codes
Deliverables: EDD
Reporting: Level II Devel III PST/UST TRRP Level IV
State of Project:
Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
Work Order Comments
www.xenco.com Page / of /

00050000 Ray 2020 2			o			
			4		(
			9.20.22 15/8	read	Went 1	Am 10
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)		Religiquished by: (Signature)
	orced unless previously negotiated.	of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated	nsibility for any losses or expenses inc each sample submitted to Eurofins Xe	amples and shall not assume any respond to each project and a charge of \$5 for	be liable only for the cost of a charge of \$85.00 will be applicated by the charge of \$85.00 will be applicated by the cost of	Service. Eurofins Xenco will Eurofins Xence—A minimum
	standard terms and conditions	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	r from client company to Eurofins Xenc	iples constitutes a valid purchase orde	ent and relinquishment of sar	otice: Signature of this docum
7470 / /4/1	Ng TI U Hg: 1631/245.1/7470//4/1	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	8RCRA Sb As Ba Be Cd	TCLP / SPLP 6010:	etal(s) to be analyzed	Circle Method(s) and Metal(s) to be analyzed
Sn U V Zn	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn	d Ca Cr Co Cu Fe Pb Mg Mn	s 11 Al Sb As Ba Be B C	8RCRA 13PPM Texa	200.8 / 6020:	Total 200.7 / 6010 200.8 / 6020:

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn Na₂S₂O₃: NaSO₃ NaHSO₄: NABIS H3PO4: HP H2SO4: H2

Sample Comments

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3015-1

 SDG Number: 03C2077001

List Source: Eurofins Carlsbad

Login Number: 3015 List Number: 1 Creator: Clifton, Cloe

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

4

10/3/2022

<6mm (1/4").

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3015-1

SDG Number: 03C2077001

Login Number: 3015 **List Source: Eurofins Midland** List Number: 2

List Creation: 09/22/22 11:12 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3112-1

Laboratory Sample Delivery Group: 03C2077001 Client Project/Site: EMSU Satellite Battery #10

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Tacoma Morrissey

JURAMER

Authorized for release by: 10/10/2022 10:11:24 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

····· Links ·····

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Released to Imaging: 11/22/2022 11:02:59 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Client: Ensolum
Project/Site: EMSU Satellite Battery #10

Laboratory Job ID: 890-3112-1 SDG: 03C2077001

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Definitions/Glossary

Job ID: 890-3112-1 Client: Ensolum Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Qualifiers

GC VOA

Qualifier	Qualifier Description						
*_	LCS and/or LCSD is outside acceptance limits, low biased.						
*+	LCS and/or LCSD is outside acceptance limits, high biased.						
*1	LCS/LCSD RPD exceeds control limits.						
F1	MS and/or MSD recovery exceeds control limits						

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

GC Semi VOA

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

Qualifier Description

HPLC/IC

Qualifier

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

Glossary

DL

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	Dunlicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

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

DLC Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD Limit of Quantitation (DoD/DOE) LOQ

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

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

NC Not Calculated

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

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

PRES Presumptive

Quality Control QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RI

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: EMSU Satellite Battery #10

Job ID: 890-3112-1

SDG: 03C2077001

Job ID: 890-3112-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3112-1

Receipt

The samples were received on 9/29/2022 1:19 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 14.0°C

GC VOA

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-36449 and analytical batch 880-36442 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene Due to a misinjection.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH05A (890-3112-2), PH06 (890-3112-3) and (LCS 880-36449/1-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.

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-35915/2-A) and (LCSD 880-35915/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3112-A-1-B MS) and (890-3112-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Lab Sample ID: 890-3112-1

Client Sample Results

Client: Ensolum Job ID: 890-3112-1
Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Client Sample ID: PH05

Date Collected: 09/29/22 08:50 Date Received: 09/29/22 13:19

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		10/08/22 12:21	10/09/22 08:33	1
Toluene	<0.00200	U *- *1	0.00200	mg/Kg		10/08/22 12:21	10/09/22 08:33	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		10/08/22 12:21	10/09/22 08:33	1
m-Xylene & p-Xylene	<0.00401	U *- *1	0.00401	mg/Kg		10/08/22 12:21	10/09/22 08:33	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		10/08/22 12:21	10/09/22 08:33	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/08/22 12:21	10/09/22 08:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			10/08/22 12:21	10/09/22 08:33	1
1,4-Difluorobenzene (Surr)	73		70 - 130			10/08/22 12:21	10/09/22 08:33	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/10/22 10:40	1
Method: SW846 8015 NM - Diese	al Range Organ	ics (DRO) ((3C)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Faa
				Oilit			Allulyzou	DII Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/22 09:15	Dil Fac
- -			50.0		_ =			
: Method: SW846 8015B NM - Die	sel Range Orga		50.0			Prepared		1
Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	50.0 (GC)	mg/Kg			10/04/22 09:15	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	unics (DRO) Qualifier	50.0 (GC)	mg/Kg		Prepared	10/04/22 09:15 Analyzed	Dil Fac
Method: SW846 8015B NM - Die	sel Range Orga Result <50.0	Qualifier U	50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 10/03/22 08:31	10/04/22 09:15 Analyzed 10/03/22 11:03	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	Qualifier U	50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/03/22 08:31 10/03/22 08:31	10/04/22 09:15 Analyzed 10/03/22 11:03 10/03/22 11:03	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.0 <50.0	Qualifier U	50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/03/22 08:31 10/03/22 08:31 10/03/22 08:31	Analyzed 10/03/22 11:03 10/03/22 11:03	Dil Fac
Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	Qualifier U	50.0 (GC) RL 50.0 50.0 50.0 <i>Limits</i>	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/03/22 08:31 10/03/22 08:31 10/03/22 08:31 Prepared	Analyzed 10/03/22 11:03 10/03/22 11:03 10/03/22 11:03 Analyzed	Dil Fac
Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga Result <50.0	Qualifier U U Qualifier	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/03/22 08:31 10/03/22 08:31 10/03/22 08:31 Prepared 10/03/22 08:31	Analyzed 10/03/22 11:03 10/03/22 11:03 10/03/22 11:03 Analyzed 10/03/22 11:03	Dil Fac
Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <50.0	Qualifier U U Qualifier	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/03/22 08:31 10/03/22 08:31 10/03/22 08:31 Prepared 10/03/22 08:31	Analyzed 10/03/22 11:03 10/03/22 11:03 10/03/22 11:03 Analyzed 10/03/22 11:03	Dil Fac 1 1 Dil Fac

Client Sample ID: PH05A

Date Collected: 09/29/22 08:55 Date Received: 09/29/22 13:19

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		10/08/22 12:21	10/09/22 08:54	1
Toluene	<0.00199	U *- *1	0.00199	mg/Kg		10/08/22 12:21	10/09/22 08:54	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		10/08/22 12:21	10/09/22 08:54	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		10/08/22 12:21	10/09/22 08:54	1
o-Xylene	<0.00199	U *+ *1	0.00199	mg/Kg		10/08/22 12:21	10/09/22 08:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/08/22 12:21	10/09/22 08:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			10/08/22 12:21	10/09/22 08:54	1

Eurofins Carlsbad

Lab Sample ID: 890-3112-2

Matrix: Solid

2

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Lab Sample ID: 890-3112-2

Client: Ensolum Job ID: 890-3112-1 Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Client Sample ID: PH05A

Date Collected: 09/29/22 08:55 Date Received: 09/29/22 13:19

Sample Depth: 4'

Method: SW846 8021B	- Volatile Ora	anic Compounds	(GC)	(Continued)
MELITOU. SYVONO OUZ ID	- voiatile Org	ariic compounds		(Continueu)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	10/08/22 12:21	10/09/22 08:54	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation
Mictilou. IAL	- OOI TOTAL DIEA	- IOIGI DIEA	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/10/22 10:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/04/22 09:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/03/22 08:31	10/03/22 12:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/03/22 08:31	10/03/22 12:05	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/03/22 08:31	10/03/22 12:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76	70 - 130	10/03/22 08:31	10/03/22 12:05	1
o-Terphenyl	81	70 - 130	10/03/22 08:31	10/03/22 12:05	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	775		4.95	mg/Kg			10/06/22 13:12	1

Client Sample ID: PH06 Lab Sample ID: 890-3112-3 Matrix: Solid

Date Collected: 09/29/22 09:00 Date Received: 09/29/22 13:19

Sample Depth: 1'

l				
Method: SW	846 8021B	- Volatile Orga	anic Compound	s (GC)

Welliou. Syvo40 002 ID - Volati	ne Organic Comp	ounus (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		10/08/22 12:21	10/09/22 09:14	1
Toluene	<0.00199	U *- *1	0.00199	mg/Kg		10/08/22 12:21	10/09/22 09:14	1
Ethylbenzene	< 0.00199	U *- *1	0.00199	mg/Kg		10/08/22 12:21	10/09/22 09:14	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		10/08/22 12:21	10/09/22 09:14	1
o-Xylene	< 0.00199	U *+ *1	0.00199	mg/Kg		10/08/22 12:21	10/09/22 09:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/08/22 12:21	10/09/22 09:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130			10/08/22 12:21	10/09/22 09:14	1
1 4-Difluorobenzene (Surr)	100		70 130			10/08/22 12:21	10/09/22 09:14	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	ma/Ka			10/10/22 10:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/04/22 09:15	1

Job ID: 890-3112-1 SDG: 03C2077001

Client: Ensolum Project/Site: EMSU Satellite Battery #10

Client Sample ID: PH06 Lab Sample ID: 890-3112-3

Date Collected: 09/29/22 09:00 Date Received: 09/29/22 13:19

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/03/22 08:31	10/03/22 12:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/03/22 08:31	10/03/22 12:25	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/03/22 08:31	10/03/22 12:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			10/03/22 08:31	10/03/22 12:25	1
o-Terphenyl	83		70 - 130			10/03/22 08:31	10/03/22 12:25	1

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 5.01 10/06/22 13:17 92.4 mg/Kg

Client Sample ID: PH06A Lab Sample ID: 890-3112-4 Date Collected: 09/29/22 09:05 **Matrix: Solid**

Date Received: 09/29/22 13:19

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		10/08/22 12:21	10/09/22 09:35	1
Toluene	<0.00200	U *- *1	0.00200	mg/Kg		10/08/22 12:21	10/09/22 09:35	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		10/08/22 12:21	10/09/22 09:35	1
m-Xylene & p-Xylene	<0.00400	U *- *1	0.00400	mg/Kg		10/08/22 12:21	10/09/22 09:35	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		10/08/22 12:21	10/09/22 09:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/08/22 12:21	10/09/22 09:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			10/08/22 12:21	10/09/22 09:35	1
1,4-Difluorobenzene (Surr)	82		70 - 130			10/08/22 12:21	10/09/22 09:35	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/10/22 10:40	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/04/22 09:15	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	<49.9	U	49.9	mg/Kg		10/03/22 08:31	10/03/22 12:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/03/22 08:31	10/03/22 12:46	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/03/22 08:31	10/03/22 12:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			10/03/22 08:31	10/03/22 12:46	1
o-Terphenyl	83		70 - 130			10/03/22 08:31	10/03/22 12:46	1

Client: Ensolum Project/Site: EMSU Satellite Battery #10

Job ID: 890-3112-1

SDG: 03C2077001

Client Sample ID: PH06A Lab Sample ID: 890-3112-4 Date Collected: 09/29/22 09:05

Matrix: Solid

Sample Depth: 2'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	408		4.97	mg/Kg			10/06/22 13:35	1

Client Sample ID: PH07 Lab Sample ID: 890-3112-5 Matrix: Solid

Date Collected: 09/29/22 09:15

Date Received: 09/29/22 13:19

Date Received: 09/29/22 13:19

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202	mg/Kg		10/08/22 12:21	10/09/22 09:55	1
Toluene	<0.00202	U *- *1	0.00202	mg/Kg		10/08/22 12:21	10/09/22 09:55	1
Ethylbenzene	<0.00202	U *- *1	0.00202	mg/Kg		10/08/22 12:21	10/09/22 09:55	1
m-Xylene & p-Xylene	<0.00404	U *- *1	0.00404	mg/Kg		10/08/22 12:21	10/09/22 09:55	1
o-Xylene	<0.00202	U *+ *1	0.00202	mg/Kg		10/08/22 12:21	10/09/22 09:55	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/08/22 12:21	10/09/22 09:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130			10/08/22 12:21	10/09/22 09:55	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/08/22 12:21	10/09/22 09:55	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/10/22 10:40	1
Method: SW846 8015 NM - Dies Analyte	•	ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/04/22 09:15	
Analyte	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0 sel Range Orga	Qualifier U	RL 50.0		D	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg			10/04/22 09:15	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg		Prepared	10/04/22 09:15 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	(GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 10/03/22 08:31	10/04/22 09:15 Analyzed 10/03/22 13:06	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/03/22 08:31 10/03/22 08:31	10/04/22 09:15 Analyzed 10/03/22 13:06 10/03/22 13:06	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/03/22 08:31 10/03/22 08:31 10/03/22 08:31	Analyzed 10/03/22 13:06 10/03/22 13:06	Dil Face 1 1 1 Dil Face
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/03/22 08:31 10/03/22 08:31 10/03/22 08:31 Prepared	Analyzed 10/03/22 13:06 10/03/22 13:06 10/03/22 13:06 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/03/22 08:31 10/03/22 08:31 10/03/22 08:31 Prepared 10/03/22 08:31	Analyzed 10/03/22 13:06 10/03/22 13:06 10/03/22 13:06 Analyzed 10/03/22 13:06	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/03/22 08:31 10/03/22 08:31 10/03/22 08:31 Prepared 10/03/22 08:31	Analyzed 10/03/22 13:06 10/03/22 13:06 10/03/22 13:06 Analyzed 10/03/22 13:06	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Lab Sample ID: 890-3112-6

Client Sample Results

Client: Ensolum Job ID: 890-3112-1
Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Client Sample ID: PH07A

Date Collected: 09/29/22 09:20 Date Received: 09/29/22 13:19

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		10/08/22 12:21	10/09/22 10:16	
Toluene	<0.00200	U *- *1	0.00200	mg/Kg		10/08/22 12:21	10/09/22 10:16	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		10/08/22 12:21	10/09/22 10:16	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399	mg/Kg		10/08/22 12:21	10/09/22 10:16	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		10/08/22 12:21	10/09/22 10:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/08/22 12:21	10/09/22 10:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130			10/08/22 12:21	10/09/22 10:16	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/08/22 12:21	10/09/22 10:16	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/10/22 10:40	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/22 09:15	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/03/22 08:31	10/03/22 13:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/03/22 08:31	10/03/22 13:27	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/03/22 08:31	10/03/22 13:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			10/03/22 08:31	10/03/22 13:27	1
o-Terphenyl	97		70 - 130			10/03/22 08:31	10/03/22 13:27	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	758		4.96	mg/Kg	_		10/06/22 13:58	1

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Surrogate Summary

Client: Ensolum Job ID: 890-3112-1 Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3089-A-1-F MS	Matrix Spike	106	91	
890-3089-A-1-G MSD	Matrix Spike Duplicate	96	81	
890-3112-1	PH05	78	73	
890-3112-2	PH05A	78	69 S1-	
890-3112-3	PH06	66 S1-	100	
890-3112-4	PH06A	83	82	
890-3112-5	PH07	74	99	
890-3112-6	PH07A	74	94	
LCS 880-36449/1-A	Lab Control Sample	171 S1+	117	
LCSD 880-36449/2-A	Lab Control Sample Dup	98	94	
MB 880-36293/5-A	Method Blank	83	92	
	Method Blank	87	87	

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

DFBZ = 1,4-Difluorobenzene (Surr)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3112-1	PH05	84	88	
390-3112-1 MS	PH05	72	67 S1-	
890-3112-1 MSD	PH05	72	66 S1-	
390-3112-2	PH05A	76	81	
390-3112-3	PH06	81	83	
390-3112-4	PH06A	78	83	
390-3112-5	PH07	85	90	
390-3112-6	PH07A	91	97	
CS 880-35915/2-A	Lab Control Sample	122	131 S1+	
_CSD 880-35915/3-A	Lab Control Sample Dup	129	139 S1+	
MB 880-35915/1-A	Method Blank	106	118	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-3112-1 Client: Ensolum Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-36293/5-A

Matrix: Solid Analysis Batch: 36442 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36293

	MB	мв						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/06/22 15:51	10/08/22 15:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/06/22 15:51	10/08/22 15:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/06/22 15:51	10/08/22 15:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/06/22 15:51	10/08/22 15:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/06/22 15:51	10/08/22 15:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/06/22 15:51	10/08/22 15:47	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	10/06/22	15:51	10/08/22 15:47	1
1,4-Difluorobenzene (Surr)	92		70 - 130	10/06/22	15:51	10/08/22 15:47	1

Lab Sample ID: MB 880-36449/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 36449 **Analysis Batch: 36442**

MR MR Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 10/08/22 12:21 10/09/22 02:23 Toluene <0.00200 U 0.00200 mg/Kg 10/08/22 12:21 10/09/22 02:23 Ethylbenzene <0.00200 U 0.00200 mg/Kg 10/08/22 12:21 10/09/22 02:23 10/08/22 12:21 10/09/22 02:23 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 10/09/22 02:23 o-Xylene <0.00200 U 0.00200 mg/Kg 10/08/22 12:21 Xylenes, Total <0.00400 U 0.00400 10/08/22 12:21 10/09/22 02:23 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	10/08/22 12:2	1 10/09/22 02:23	1
1,4-Difluorobenzene (Surr)	87		70 - 130	10/08/22 12:2	1 10/09/22 02:23	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-36449/1-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 36442

o-Xylene

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.01884	*_	mg/Kg		19	70 - 130	
Toluene	0.100	0.01832	*_	mg/Kg		18	70 - 130	
Ethylbenzene	0.100	0.02039	*-	mg/Kg		20	70 - 130	
m-Xylene & p-Xylene	0.200	0.05373	*_	mg/Kg		27	70 - 130	

0.3177 *+

mg/Kg

318

70 - 130

LCS LCS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 171 S1+ 70 - 130 70 - 130

117

Lab Sample ID: LCSD 880-36449/2-A Client Sample ID: Lab Control Sample Dup

0.100

Prep Type: Total/NA Prep Batch: 36449

	Spik	e LCSD	LCSD				%Rec		RPD
Analyte	Adde	l Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.10	0.09908	*1	mg/Kg		99	70 - 130	136	35

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Prep Batch: 36449

Matrix: Solid

Analysis Batch: 36442

1,4-Difluorobenzene (Surr)

Released to Imaging: 11/22/2022 11:02:59 AM

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10/10/2022

QC Sample Results

Job ID: 890-3112-1 Client: Ensolum Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

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

Lab Sample ID: LCSD 880-36449/2-A

Matrix: Solid Analysis Batch: 36442 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 36449

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08768	*1	mg/Kg		88	70 - 130	131	35
Ethylbenzene	0.100	0.08396	*1	mg/Kg		84	70 - 130	122	35
m-Xylene & p-Xylene	0.200	0.1727	*1	mg/Kg		86	70 - 130	105	35
o-Xylene	0.100	0.09883	*1	mg/Kg		99	70 - 130	105	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-3089-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 36442 Prep Batch: 36449

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U *- *1 F1	0.0998	0.04456	F1	mg/Kg		45	70 - 130	
Toluene	<0.00202	U *- *1 F1	0.0998	0.04470	F1	mg/Kg		45	70 - 130	
Ethylbenzene	<0.00202	U *- *1 F1	0.0998	0.04470	F1	mg/Kg		45	70 - 130	
m-Xylene & p-Xylene	<0.00403	U *- *1 F1	0.200	0.07327	F1	mg/Kg		37	70 - 130	
o-Xylene	<0.00202	U *+ *1 F1	0.0998	0.04861	F1	mg/Kg		49	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	91	70 - 130

Lab Sample ID: 890-3089-A-1-G MSD

Matrix: Solid

Analysis Batch: 36442

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 36449

Spike MSD MSD RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00202 U *- *1 F1 0.101 0.03882 F1 mg/Kg 39 70 - 130 14 35 Toluene <0.00202 U *- *1 F1 0.101 0.04506 F1 mg/Kg 45 70 - 130 35 Ethylbenzene <0.00202 U *- *1 F1 0.101 0.04374 F1 mg/Kg 43 70 - 130 35 <0.00403 U *- *1 F1 0.201 0.06634 F1 33 70 - 130 35 m-Xylene & p-Xylene mg/Kg 10 0.101 0.04504 F1 o-Xylene <0.00202 U*+*1 F1 mq/Kq 45 70 - 130 35

MSD MSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

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

Lab Sample ID: MB 880-35915/1-A

Matrix: Solid

Analysis Batch: 35895

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

Prep Batch: 35915

мв мв Result Qualifier RL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 10/03/22 08:31 10/03/22 09:56 (GRO)-C6-C10

Client: Ensolum

Job ID: 890-3112-1 SDG: 03C2077001

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

Lab Sample ID: MB 880-35915/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-35915/2-A

Project/Site: EMSU Satellite Battery #10

Analysis Batch: 35895

Client	Sample	D:	Meth	od	В	la	n	k
	_		_	_				_

Prep Type: Total/NA Prep Batch: 35915

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		10/03/22 08:31	10/03/22 09:56	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/03/22 08:31	10/03/22 09:56	1

MB MB

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	106		70 - 130	10/03/22 08:31	10/03/22 09:56	1
Į	o-Terphenyl	118		70 - 130	10/03/22 08:31	10/03/22 09:56	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Solid Prep Batch: 35915 Analysis Batch: 35895 LCS LCS Spike

Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1044 104 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1062 106 mg/Kg 70 - 130 C10-C28)

LCS LCS

l	Surrogate	%Recovery	Qualifier	Limits
	1-Chlorooctane	122		70 - 130
	o-Terphenyl	131	S1+	70 - 130

Lab Sample ID: LCSD 880-35915/3-A

Matrix: Solid

Analysis Batch: 35895

Client Sample	ID: Lab	Control	Sample Du	ıp
---------------	---------	---------	-----------	----

Prep Type: Total/NA

Prep Batch: 35915

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1064		mg/Kg	_	106	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1157		mg/Kg		116	70 - 130	9	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 129 70 - 130 o-Terphenyl 139 S1+ 70 - 130

Lab Sample ID: 890-3112-1 MS **Matrix: Solid**

Analysis Batch: 35895

Client Sample ID: PH05 Prep Type: Total/NA Prep Batch: 35915

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	881.5		mg/Kg		86	70 - 130	
Diesel Range Organics (Over	<50.0	U	998	796.4		mg/Kg		78	70 - 130	
C10-C28)										

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenvl	67	S1-	70 ₋ 130

Client: Ensolum Job ID: 890-3112-1 SDG: 03C2077001 Project/Site: EMSU Satellite Battery #10

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

_				
Lab Sample ID: 890-3112-1 MSD				Client Sample ID: PH05
Matrix: Solid				Prep Type: Total/NA
Analysis Batch: 35895				Prep Batch: 35915
	Sample Sample	Spike	MSD MSD	%Rec RPD

Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<50.0	U	999	845.9		mg/Kg		83	70 - 130	4	20
<50.0	U	999	794.2		mg/Kg		77	70 - 130	0	20
	Result <50.0	Result Qualifier	Result Qualifier Added	Result Qualifier Added Result <50.0	Result Qualifier Added Result Qualifier 999 845.9	Result <50.0Qualifier UAdded 999Result 845.9Qualifier mg/Kg	Result Qualifier Added Result Qualifier Unit D <50.0 U 999 845.9 Gualifier Unit mg/Kg	Result <50.0Qualifier UAdded 999Result 845.9Qualifier mg/KgUnit mg/KgD MRec 83	Result Qualifier Added Result Qualifier Unit D %Rec Limits <50.0	<50.0 U 999 845.9 mg/Kg 83 70 - 130 4

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 72 o-Terphenyl 66 S1-70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-36006/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 36264

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/06/22 11:38	1

Lab Sample ID: LCS 880-36006/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** Analysis Batch: 36264

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	 250	241.3		mg/Kg		97	90 - 110		_

Lab Sample ID: LCSD 880-36006/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 36264

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	258.0		mg/Kg		103	90 - 110	7	20	

Lab Sample ID: 890-3112-3 MS Client Sample ID: PH06 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 36264

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	92.4		251	350.1		ma/Ka		103	90 110	

Lab Sample ID: 890-3112-3 MSD Client Sample ID: PH06 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 36264

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	92.4		251	334.5		mg/Kg		97	90 - 110	5	20

QC Association Summary

Client: Ensolum

Project/Site: EMSU Satellite Battery #10

Job ID: 890-3112-1 SDG: 03C2077001

GC VOA

Prep Batch: 36293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-36293/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 36442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3112-1	PH05	Total/NA	Solid	8021B	36449
890-3112-2	PH05A	Total/NA	Solid	8021B	36449
890-3112-3	PH06	Total/NA	Solid	8021B	36449
890-3112-4	PH06A	Total/NA	Solid	8021B	36449
890-3112-5	PH07	Total/NA	Solid	8021B	36449
890-3112-6	PH07A	Total/NA	Solid	8021B	36449
MB 880-36293/5-A	Method Blank	Total/NA	Solid	8021B	36293
MB 880-36449/5-A	Method Blank	Total/NA	Solid	8021B	36449
LCS 880-36449/1-A	Lab Control Sample	Total/NA	Solid	8021B	36449
LCSD 880-36449/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36449
890-3089-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	36449
890-3089-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	36449

Prep Batch: 36449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3112-1	PH05	Total/NA	Solid	5035	
890-3112-2	PH05A	Total/NA	Solid	5035	
890-3112-3	PH06	Total/NA	Solid	5035	
890-3112-4	PH06A	Total/NA	Solid	5035	
890-3112-5	PH07	Total/NA	Solid	5035	
890-3112-6	PH07A	Total/NA	Solid	5035	
MB 880-36449/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36449/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36449/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3089-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
890-3089-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 36561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3112-1	PH05	Total/NA	Solid	Total BTEX	
890-3112-2	PH05A	Total/NA	Solid	Total BTEX	
890-3112-3	PH06	Total/NA	Solid	Total BTEX	
890-3112-4	PH06A	Total/NA	Solid	Total BTEX	
890-3112-5	PH07	Total/NA	Solid	Total BTEX	
890-3112-6	PH07A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 35895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3112-1	PH05	Total/NA	Solid	8015B NM	35915
890-3112-2	PH05A	Total/NA	Solid	8015B NM	35915
890-3112-3	PH06	Total/NA	Solid	8015B NM	35915
890-3112-4	PH06A	Total/NA	Solid	8015B NM	35915
890-3112-5	PH07	Total/NA	Solid	8015B NM	35915
890-3112-6	PH07A	Total/NA	Solid	8015B NM	35915
MB 880-35915/1-A	Method Blank	Total/NA	Solid	8015B NM	35915

QC Association Summary

Client: Ensolum Project/Site: EMSU Satellite Battery #10 Job ID: 890-3112-1

SDG: 03C2077001

GC Semi VOA (Continued)

Analysis Batch: 35895 (Continued)

Lab Sample ID LCS 880-35915/2-A	Client Sample ID Lab Control Sample	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 35915
LCSD 880-35915/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35915
890-3112-1 MS	PH05	Total/NA	Solid	8015B NM	35915
890-3112-1 MSD	PH05	Total/NA	Solid	8015B NM	35915

Prep Batch: 35915

Prep Bat	Method	Matrix	Prep Type	Client Sample ID	Lab Sample ID
	8015NM Prep	Solid	Total/NA	PH05	890-3112-1
	8015NM Prep	Solid	Total/NA	PH05A	890-3112-2
	8015NM Prep	Solid	Total/NA	PH06	890-3112-3
	8015NM Prep	Solid	Total/NA	PH06A	890-3112-4
	8015NM Prep	Solid	Total/NA	PH07	890-3112-5
	8015NM Prep	Solid	Total/NA	PH07A	890-3112-6
	8015NM Prep	Solid	Total/NA	Method Blank	MB 880-35915/1-A
	8015NM Prep	Solid	Total/NA	Lab Control Sample	LCS 880-35915/2-A
	8015NM Prep	Solid	Total/NA	Lab Control Sample Dup	LCSD 880-35915/3-A
	8015NM Prep	Solid	Total/NA	PH05	890-3112-1 MS
	8015NM Prep	Solid	Total/NA	PH05	890-3112-1 MSD

Analysis Batch: 36039

Lab Sample ID 890-3112-1	Client Sample ID PH05	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-3112-2	PH05A	Total/NA	Solid	8015 NM	
890-3112-3	PH06	Total/NA	Solid	8015 NM	
890-3112-4	PH06A	Total/NA	Solid	8015 NM	
890-3112-5	PH07	Total/NA	Solid	8015 NM	
890-3112-6	PH07A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 36006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3112-1	PH05	Soluble	Solid	DI Leach	
890-3112-2	PH05A	Soluble	Solid	DI Leach	
890-3112-3	PH06	Soluble	Solid	DI Leach	
890-3112-4	PH06A	Soluble	Solid	DI Leach	
890-3112-5	PH07	Soluble	Solid	DI Leach	
890-3112-6	PH07A	Soluble	Solid	DI Leach	
MB 880-36006/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36006/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36006/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3112-3 MS	PH06	Soluble	Solid	DI Leach	
890-3112-3 MSD	PH06	Soluble	Solid	DI Leach	

Analysis Batch: 36264

Released to Imaging: 11/22/2022 11:02:59 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3112-1	PH05	Soluble	Solid	300.0	36006
890-3112-2	PH05A	Soluble	Solid	300.0	36006
890-3112-3	PH06	Soluble	Solid	300.0	36006
890-3112-4	PH06A	Soluble	Solid	300.0	36006
890-3112-5	PH07	Soluble	Solid	300.0	36006

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QC Association Summary

Client: Ensolum
Project/Site: EMSU Satellite Battery #10
SDG: 03C2077001

HPLC/IC (Continued)

Analysis Batch: 36264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3112-6	PH07A	Soluble	Solid	300.0	36006
MB 880-36006/1-A	Method Blank	Soluble	Solid	300.0	36006
LCS 880-36006/2-A	Lab Control Sample	Soluble	Solid	300.0	36006
LCSD 880-36006/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36006
890-3112-3 MS	PH06	Soluble	Solid	300.0	36006
890-3112-3 MSD	PH06	Soluble	Solid	300.0	36006

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12

Project/Site: EMSU Satellite Battery #10

Client: Ensolum

Date Collected: 09/29/22 08:50 Date Received: 09/29/22 13:19

	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	36449	10/08/22 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36442	10/09/22 08:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36561	10/10/22 10:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36039	10/04/22 09:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35915	10/03/22 08:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35895	10/03/22 11:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36006	10/03/22 14:32	KS	EET MID
Soluble	Analysis	300.0		1			36264	10/06/22 13:06	CH	EET MID

Client Sample ID: PH05A Lab Sample ID: 890-3112-2 Date Collected: 09/29/22 08:55

Date Received: 09/29/22 13:19

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	36449	10/08/22 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36442	10/09/22 08:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36561	10/10/22 10:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36039	10/04/22 09:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35915	10/03/22 08:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35895	10/03/22 12:05	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36006	10/03/22 14:32	KS	EET MID
Soluble	Analysis	300.0		1			36264	10/06/22 13:12	CH	EET MID

Client Sample ID: PH06 Lab Sample ID: 890-3112-3

Date Collected: 09/29/22 09:00 Date Received: 09/29/22 13:19

	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	36449	10/08/22 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36442	10/09/22 09:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36561	10/10/22 10:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36039	10/04/22 09:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35915	10/03/22 08:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35895	10/03/22 12:25	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	36006	10/03/22 14:32	KS	EET MID
Soluble	Analysis	300.0		1			36264	10/06/22 13:17	CH	EET MID

Client Sample ID: PH06A Lab Sample ID: 890-3112-4

Date Collected: 09/29/22 09:05 Date Received: 09/29/22 13:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	36449	10/08/22 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36442	10/09/22 09:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36561	10/10/22 10:40	AJ	EET MID

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Matrix: Solid

Client: Ensolum

Job ID: 890-3112-1 Project/Site: EMSU Satellite Battery #10 SDG: 03C2077001

Client Sample ID: PH06A Lab Sample ID: 890-3112-4

Date Collected: 09/29/22 09:05 Matrix: Solid Date Received: 09/29/22 13:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			36039	10/04/22 09:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35915	10/03/22 08:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35895	10/03/22 12:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36006	10/03/22 14:32	KS	EET MID
Soluble	Analysis	300.0		1			36264	10/06/22 13:35	CH	EET MID

Client Sample ID: PH07 Lab Sample ID: 890-3112-5

Date Collected: 09/29/22 09:15 **Matrix: Solid**

Date Received: 09/29/22 13:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	36449	10/08/22 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36442	10/09/22 09:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36561	10/10/22 10:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36039	10/04/22 09:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35915	10/03/22 08:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35895	10/03/22 13:06	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36006	10/03/22 14:32	KS	EET MID
Soluble	Analysis	300.0		1			36264	10/06/22 13:41	CH	EET MID

Client Sample ID: PH07A Lab Sample ID: 890-3112-6

Date Collected: 09/29/22 09:20 Date Received: 09/29/22 13:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36449	10/08/22 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36442	10/09/22 10:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36561	10/10/22 10:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36039	10/04/22 09:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35915	10/03/22 08:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35895	10/03/22 13:27	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	36006	10/03/22 14:32	KS	EET MID
Soluble	Analysis	300.0		1			36264	10/06/22 13:58	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EMSU Satellite Battery #10
SDG: 03C2077001

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	' '	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for w
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

3

4

6

10

11

13

14

Method Summary

Client: Ensolum

Project/Site: EMSU Satellite Battery #10

Job ID: 890-3112-1

SDG: 03C2077001

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: EMSU Satellite Battery #10

Job ID: 890-3112-1

SDG: 03C2077001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3112-1	PH05	Solid	09/29/22 08:50	09/29/22 13:19	2'
890-3112-2	PH05A	Solid	09/29/22 08:55	09/29/22 13:19	4'
890-3112-3	PH06	Solid	09/29/22 09:00	09/29/22 13:19	1'
890-3112-4	PH06A	Solid	09/29/22 09:05	09/29/22 13:19	2'
890-3112-5	PH07	Solid	09/29/22 09:15	09/29/22 13:19	2'
890-3112-6	PH07A	Solid	09/29/22 09:20	09/29/22 13:19	4'

Environment Testing

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

Work Order No:

Company Name Endotum Company Name Company		Tacoma Morrissev		Wor	Work Order Comments	S
Carisbad, NM 88220 City, State ZIP:				Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	P ☐ Brownfields ☐	RRC Superfund
Carlsbad, NM 88220 City, State ZIP: 303-887-2946 Email:			6	State of Project:		
EMISU Satellite Battery #10 Turn Around Pres.	e ZIP:			Reporting: Level III DLEVEL III PST/UST TRRP	III PST/UST []	TRRP Level IV
EMSU Satellite Battery #10 Code	ey@ensolum.c	om		Deliverables: EDD	ADaPT 🗆	Other:
Control Control Code			ANALYSIS REQU	EQUEST	Pres	Preservative Codes
SEIPT Temp Blank: Egs No Wet Ice: Yes No N/A Temperature He lab, if received by 4:30pm Intact: Yes No N/A Temperature Reading: 14	Pres. Code				None: NO	DI Water: H ₂ O
Kase Parker TaT stants the day received by #30pm EIPT Temp Blank: Ces No Wet Ice: Cys No N/A Correction Factor: Correction Factor: Corrected Temperature: I					Cool: Cool	
# the lab, if received by 4:30pm received by 5:30pm received by 5:30pm received by 5:30pm received by 6:30pm received by 6:30	ved by				нсь: нс	
EIPT Temp Blank:	-				H ₂ S0 ₄ : H ₂	NaOH: Na
Initact: Tesy No Thermometer ID: Three Thr	nete			-	H₃PO₄: HP	· ס
Seals: Yes No N/A Correction Factor:					NaHSO ₄ : NABIS	NABIS
Seals: Yes No N/A Temperature Reading: 14	_	_			Na ₂ S ₂ O ₃ : NaSO ₃	NaSO ₃
Corrected Temperature:	N				Zn Acetat	Zn Acetate+NaOH: Zn
Date Time Sampled Sampled Sampled Comp Cont H05A S 9/29/2022 8:55 4' H06A S 9/29/2022 9:00 1' H07A S 9/29/2022 9:05 2' H07A S 9/29/2022 9:15 2' H07A S 9/29/2022 9:20 4' H07A S 9/29/2022 9:2	(c)	015)	890-3112 Chain of Custody	ody	NaOH+As	NaOH+Ascorbic Acid: SAPC
H05A	# of	TPH (8			San	Sample Comments
H06A S 9/29/2022 9:00 1' H06A S 9/29/2022 9:05 2' H07A S 9/29/2022 9:20 4' H07A S H07A		×			Incident ID:	D
H06A		×			NAPP22	NAPP2223850551
H07A S 9/29/2022 9:15 2' H07A S 9/29/2022 9:15 2' H07A S 9/29/2022 9:20 4' H07A S 9/29/2022 9:20 4' H07A S 9/29/2022 9:20 4' H07A S 9/29/2022 9:20 4' H07A S 9/29/2022 9:20 A' BRCRA 13PPM Texas 11 Al S TCLP / SPLP 6010: BRCRA TRANCO will be liable only for the cost of samples constitutes a valid purchase order from client of the samples and shall not assume any responsibility for a structure of the sample of the		×			Cost Center:	nter:
H07A S 9/29/2022 9:20 4' H07A S 9/29/2022 9:20 4' 16010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al (16010 200.8 / 6020: 1CLP / SPLP 6010: 8RCRA Tapco will be analyzed TCLP / SPLP 6010: 8RCRA Inhimum charge of \$8559 will be applied to each project and a charge of \$5 for each sample by: (Signature) Received by: (Signature) by: (Signature) Received by: (Signature)		×				
## 107A S 9/29/2022 9:20 4' ## 16010 200.8 / 6020: BRCRA 13PPM Texas 11 Al S ## 17 Al S ## 107A I SPLP 6010: BRCRA ## 17 Al S ## 17 Al S ## 107A I SPLP 6010: BRCRA		×			AFE:	
7 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al (s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA 73ppm Texas 11 Al (s) to be analyzed TCLP / SPLP 6010: 8RCRA 73ppc will be liable only for the cost of samples constitutes a valid purchase order from client control in minimum charge of \$85 for each sample to each project and a charge of \$85 for each sample by: (Signature) Type Alexandra Charge of \$85 for each sample by: (Signature)		×				
## 16010 200.8 / 6020: ## 160						
in 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Section and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA this document and relinquishment of samples constitutes a valid purchase order from client control in the liable only for the cost of samples and shall not assume any responsibility for a symplomum charge of 55 for each sample for the cost of samples and so charge of 55 for each sample for the cost of samples and so charge of 55 for each sample for the cost of samples and so charge of 55 for each sample for the cost of samples and so charge of 55 for each sample for the cost of samples and so charge of 55 for each sample for the cost of samples and so charge of 55 for each sample for the cost of samples and so charge of 55 for each sample for the cost of samples and so charge of 55 for each sample for the cost of samples and so charge of 55 for each sample for the cost of samples and so charge of 55 for each sample for the cost of samples and so charge of 55 for each sample for the cost of samples and so charge of 55 for each sample for the cost of samples and shall not assume any responsibility for a cost of samples and shall not assume any responsibility for a cost of samples and shall not assume any responsibility for a cost of samples and shall not assume any responsibility for a cost of samples and shall not assume any responsibility for a cost of samples and shall not assume any responsibility for a cost of samples and sampl		K				
16010 200.8 / 16020: BRCRA 13PPM Texas 11 Al Solution 15						
and Metal(s) to be analyzed TCLP / SPLP 6010: BRCRA This document and relinquishment of samples constitutes a valid purchase order from client o Repco will be illable only for the cost of samples and shall not assume any responsibility for at Inhimum charge of \$85.50 will be applied to each project and a charge of \$5 for each sample (by: (Signature) Received by: (Signature)		7	B Cd Ca Cr Co Cu Fe Pb N		NIK Se Ag SiO2 Na Sr TL Sn	Sn U V Zn
his document and relinquishment of samples constitutes a valid purchase order from client or Repco will be liable only for the cost of samples and shall not assume any responsibility for an infinimum charge of \$85 for each sample of by: (Signature) Received by: (Signature) Received by: (Signature)	<u> </u>	As Ba Be	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Pb Mg Mn Mo Ni K Se Ag	Hg: 1631 / 245.1 / 7470	
by: (Signature) Received by: (Signature)	xas 11 Al Sb	As Ba Be	(enco, its affiliates and subcontractors. It is incurred by the client if such losses are is Xenco, but not analyzed. These terms w	Mg Mn Mo Ni K Se Ag	nditions e control r negotiated.	470 / 7471
March Stuff 91	Xas 11 Al Sb 0: 8RCRA SI der from client com ponsibility for any i	AS BA BE AS BA BE AS BA BE Dany to Eurofins Dany to Eurofins Dany to Eurofins		Mg Mn Mo Ni K Se Ag i Se Ag Ti U t assigns standard terms and co i due to circumstances beyond th	(Signature)	11 111-
	Xas 11 Al Sb 0: 8RCRA Si der from client com ponsibility for any II for each sample su D.	b As Ba Be Sb As Ba Be mpany to Eurofins y losses or expens submitted to Eurofi Date/Time	Relinquished by: (Signature)	Mg Mn Mo Ni K Se Ag SiO ₂ Na discontinuo Ng Na Ni K Se Ag SiO ₂ Na discontinuo Ng Na Ni Kassigns standard terms and conditions a due to circumstances beyond the control will be enforced unless previously negotiated. Received by: (Signature)	(0.9	1 111 111-
~	xas 11 Al Sb 0: 8RCRA St der from client com ponsibility for any i for each sample su	Sb As Ba Be Co Sb As Ba Be Co company to Eurofins Xen any losses or expenses in le submitted to Eurofins X Date/Time	Relinquished by: (Signatur	Ag Mn Mo Ni K Se Ag i Se Ag Ti U t assigns standard terms and co i due to circumstances beyond the will be enforced unless previously re) Received by	9	1 11 11 111-

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3112-1

 SDG Number: 03C2077001

Login Number: 3112 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

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10/10/2022

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3112-1

SDG Number: 03C2077001

Login Number: 3112 **List Source: Eurofins Midland** List Number: 2

List Creation: 10/03/22 01:12 PM

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	

Released to Imaging: 11/22/2022 11:02:59 AM

<6mm (1/4").

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

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

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

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

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

CONDITIONS

Action 153877

CONDITIONS

Operator:	OGRID:
Empire New Mexico LLC	330679
2200 S. Utica Place	Action Number:
Tulsa, OK 74114	153877
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Variance to collect confirmation soil samples not to exceed 500ft2 approved. As the release was 110 bbls of crude oil with 0 bbls recovery, please analyze all soil samples for BTEX and TPH as directed in Table 1 of 19.15.29 NMAC. Assessment soil samples on pad should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release, regardless of depth to groundwater.	11/22/2022