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 Page 1 of 310

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NAPP2218236445
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

32.101658 Latitude

Site Name PLU 27 Brushy Draw 161H	Site Type Production Well
Date Release Discovered 06/22/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
Е	27	258	30E	Eddy

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

Nature and Volume of Release

Materia	l(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
▼ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Produced Water w/FR	104.52 BBLS	100.00 BBLS
Cause of Release During free flu	frac operations, engine loss resulted in fluid discharge ids were recovered. A third-party contractor has been r	through charger pump to both containment and pad. All etained for remediation purposes.

eceived by OCD: 8/17/202	31:05:35 PM State of New Mexico		NAPP2218236445
		Incident ID	NAFF2218230443
nge 2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? X Yes No	If YES, for what reason(s) does the responsible part A release greater than 25 barrels.		
	otice given to the OCD? By whom? To whom? W		
Yes, by Garrett Green to	ocd.enviro@state.nm.us, Mike Bratcher, Robert Han	nlet, and Jennifer Nobui on 06/22	/2022 via email.

Initial Response

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

 \checkmark The source of the release has been stopped.

р

NA

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

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

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

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

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

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

Printed Name:	Title: SSHE Coordinator
Signature: Satt Sum	Date:
email:	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date: 07/01/2022

Location:	PLU 27 Brushy Draw 161H	
Spill Date:	6/22/2022	
	Area 1	
Approximate A	rea = 280.7	3 cu.ft.
	VOLUME OF LEAK	
Total Crude Oil	= 0.0) bbls
Total Produced	Water = 50.0) bbls
	Area 2	
Approximate A	rea = 5080.0) sq. ft.
Average Satura	tion (or depth) of spill = 2.0) inches
Average Porosi	ty Factor = 0.0	3

VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	54.52	bbls

TOTAL VOLUME OF LEAK			
Total Crude Oil =	0.00	bbls	
Total Produced Water =	104.52	bbls	
TOTAL VOLUME RECOVERED			
Total Crude Oil =	0.00	bbls	
Total Produced Water =	100.00	bbls	

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

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

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

District IV 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

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	122296
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By	Condition	Condition Date
jharimon	None	7/1/2022

CONDITIONS

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Action 122296

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Oil Conservation Division

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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?	> 100 (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

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

Page 3

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F01111 C-141			Incident ID	NAPP2218236445
Page 4	Oil Conservation Divisio	n	District RP	
			Facility ID	
			Application ID	
regulations all operators a public health or the envir failed to adequately inves addition, OCD acceptanc and/or regulations. Printed Name: _Garret Signature: email: _garrett.green@		notifications and perform co ne OCD does not relieve the threat to groundwater, surfac of responsibility for compl _Environmental Coordin	prrective actions for rele operator of liability sho ce water, human health iance with any other fec nator	ases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:Jo	celyn Harimon	Date:01/	20/2023	

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Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

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Remediation 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. Title: <u>Environmental Coordinator</u> Printed Name: ____Garrett Green____ _____ Date: <u>1/19/2023</u> Signature: ____ Telephone: <u>575-200-0729</u> email: <u>garrett.green@exxonmobil.com</u> **OCD Only** Received by: Jocelyn Harimon Date: 01/20/2023 X Approved with Attached Conditions of Approval Approved Denied Deferral Approved Robert Hamlet Date: 5/19/2023 Signature:

Oil Conservation Division

Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following	items must be included in the closure report.
\square A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certaid may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the O Printed Name:Garrett Green Signature:	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete. Title: _Environmental Coordinator Date:8/17/2023
email:garrett.green@exxonmobil.com	Telephone:575-200-0729
OCD Only	
Received by: <u>Shelly Wells</u>	Date: <u>8/17/2023</u>
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by: <u>Scott Rodgers</u>	Date: 02/19/2024
Printed Name: Scott Rodgers	Environmental Specialist Adv.

ENSOLUM

August 17, 2023

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

Re: Closure Request PLU 27 Brushy Draw 161H Incident Numbers nAPP2217546910 & nAPP2218236445 Eddy County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document additional delineation activities and advance a soil boring to investigate regional groundwater depth at the PLU 27 Brushy Draw 161H (Site). The purpose of the delineation and soil boring activities, in accordance with an approved *Remediation Work Plan (Work Plan)*, was to provide full horizontal definition of the release extent and confirm depth to groundwater at the Site. Based on laboratory analytical results from delineation activities and results from the depth to groundwater soil boring, XTO is submitting this *Closure Request*, describing remediation activities that has occurred and requesting no further action for Incident Numbers nAPP2217546910 and nAPP2218236445.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit E, Section 27, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.10139°, -103.87601°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 12, 2022, a high-pressure hose on a pump failed, resulting in the release of 11 barrels (bbls) of produced water with friction reducer into a temporary lined containment and onto the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 10 bbls of fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Recovery Notification Form C-141 (Form C-141) on June 24, 2022. The release was assigned Incident Number NAPP2217546910.

On June 22, 2022, engine loss resulted in fluid discharge through a charger pump, resulting in the release of 104.52 bbls of produced water with friction reducer into a separate temporary lined containment and onto the well pad. Approximately 100 bbls of fluids were recovered. XTO reported the release to the NMOCD via email on June 22, 2022 and with a subsequent Form C-141 on July 1, 2022. The release was assigned Incident Number NAPP2218236445.

Each temporary lined containment was removed prior to beginning Site assessment activities. As such, liner inspections could not be completed. The locations of each release extent and the temporary containment for Incident Number NAPP2217546910 was identified based on information provided on the Form C-141 and visual observations. The safety data sheet (SDS) for friction reducer is provided as Appendix A.

E N S O L U M

On January 19, 2023, Ensolum submitted a *Work Plan* to the NMOCD to confirm regional depth to groundwater and collect additional lateral delineation soil samples to confirm the southern release did not flow off pad. Approval of the *Work Plan* was received from the NMOCD on May 19, 2023 with the following conditions:

- Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 New Mexico Administrative Code (NMAC),
- Please include in the closure report the driller's log for the borehole to 105 feet bgs for depth to groundwater determination,
- Floor confirmation samples should be delineated/excavated to meet Closure Criteria standards for Site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 milligrams per kilograms (mg/kg) for chlorides and 100 mg/kg for TPH to defined the edge of the release. Confirmation samples should be collected every 200 square feet, and
- The work will need to occur in 90 days after the work plan has been approved.

For the conditions above referring to the collection of floor and sidewall soil samples, Ensolum understands this would only need to occur if the proposed depth to groundwater soil boring resulted in groundwater depth to be less than 50 feet bgs, and an excavation would be needed.

The following Closure Request summarizes implementation of the Work Plan.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Based on the results of the Site Characterization, detailed in the *Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

In an effort to confirm the depth to groundwater determination, on April 17, 2023, Ensolum personnel oversaw installation of a soil boring within 0.5 miles of the Site utilizing a truck-mounted air rotary rig. The soil boring (C-4730) was permitted by the New Mexico Office of the State Engineer (OSE) and was advanced to a total depth of 105 feet below ground surface (bgs). An Ensolum geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole lithologic/soil sampling log is included in Appendix B. The location of the borehole is on the Site pad, approximately 15 feet northeast of the northern release extent and is depicted on Figure 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed groundwater beneath the Site

XTO Energy, Inc Closure Request PLU 27 Brushy Draw 161H

ENSOLUM

is greater than 100 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. Based on the confirmed depth to water greater than 100 feet bgs, the Table I Closure Criteria assigned in the *Work Plan* are applicable and appropriate for protection of groundwater at this Site. Photographic documentation of the drilling activities is provided in Appendix C.

ADDITIONAL DELINEATION SOIL SAMPLING ACTIVITIES

On May 24, 2023, Ensolum personnel were at the Site to conduct additional delineation activities. Four delineation soil samples (SS12 through SS15) were collected outside of the southern release extent at a depth of 0.5 feet bgs to confirm the release did not flow off pad. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Field screening results and observations for potholes completed on December 12, 2022, were logged on lithologic/soil sampling logs and are included in Appendix D.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following 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. Soil samples delivered to the laboratory the same day they were collected may not have equilibrated to 6 degrees Celsius required for shipment and long term storage but are considered to have been received in acceptable condition by the laboratory.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the four additional delineation soil samples (SS12 through SS15) indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and thus, confirming the southern release extent did not flow into pasture area. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix E.

CLOSURE REQUEST

Delineation activities were conducted at the Site to address the June 12, and June 22, 2022, releases of produced water with friction reducer. A soil boring advanced to 105 feet bgs was dry, confirming depth to groundwater is greater than 100 feet bgs. Laboratory analytical results for additional delineation soil samples SS12 through SS15, collected around the southern release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Based on all delineation soil sample analytical results, vertical and horizontal definition for remediation has been established for both releases. This includes soil samples SS09 through SS15 collected around both releases, confirming the releases did not flow off pad.

Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COC concentrations for all delineation soil samples were compliant with the Closure Criteria, indicating the absence of impacts to soil from the two release events. Based on delineation laboratory analytical results no further remediation was required. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Numbers nAPP2217546910 and nAPP2218236445.

XTO Energy, Inc Closure Request PLU 27 Brushy Draw 161H

E N S O L U M

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

Sincerely, Ensolum, LLC

Benjamin Belill Project Geologist

cc: Garrett Green, XTO Shelby Pennington, XTO BLM

Ashley L. ager

Ashley Ager, M.S., PG Principal

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Table 1
 Soil Sample Analytical Results
- Appendix A Friction Reducer SDS.
- Appendix B C-4730 Soil Boring Log
- Appendix C Photographic Log
- Appendix D Lithologic soil sampling Logs
- Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix F NMOCD Notifications



FIGURES

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TABLES

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E N S O L U M

				PLU	TABLE 1 PLE ANALYTIC/ J 27 Brushy Draw XTO Energy, Ind Y County, New N	161H c				
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Del	ineation Soil San	nples				
SS01	12/07/2022	0.5	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	65.4
PH01	12/12/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,250
PH01A	12/12/2022	3	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	725
SS02	12/07/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	62.4
PH02	12/12/2022	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	812
SS03	12/07/2022	0.5	<0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	58.6
PH03	12/12/2022	1	<0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	714
SS04	12/07/2022	0.5	<0.00200	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	497
PH04	12/12/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,220
PH04A	12/12/2022	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	635
SS05	12/07/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	6,580
PH05	12/12/2022	1	<0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	5,380
PH05A	12/12/2022	5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	3,690
PH05B	12/12/2022	7	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	795
SS06	12/07/2022	0.5	<0.00201	< 0.00402	<49.9	88.0	<49.9	88.0	88.0	621
PH06	12/12/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	7,980
PH06A	12/12/2022	5	<0.00200	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,560
PH06B	12/12/2022	8	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	9.26
PH07	12/12/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	7,400
PH07A	12/12/2022	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<50.0	<49.9	338
SS07	12/07/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,980
SS08	12/07/2022	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	987
SS09	12/07/2022	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	43.0
SS10	12/07/2022	0.5	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	195
SS11	12/07/2022	0.5	<0.00199	<0.00398	<50.0	61.2	<50.0	61.2	61.2	25.1
SS12	05/24/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	81.6
SS13	05/24/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	61.2
SS14	05/24/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	71.1
SS15	05/24/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	52.2

Notes:

bgs: below ground surface

GRO: Gasoline Range Organics

mg/kg: milligrams per kilogram NMOCD: New Mexico Oil Conservation Division DRO: Diesel Range Organics ORO: Oil Range Organics

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TPH: Total Petroleum Hydrocarbon

Concentrations in bold exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

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APPENDIX A

Friction Reducer SDS

	S	SAFET	TY DATA SHEET
Issuing Date 01-Aug-2019	Revision Date	01-Aug-2019	Revision Number 1
1. IDENTIFICA	TION OF THE SUBST COMPANY/U	ANCE/PREPARATION	ON AND OF THE
Product identifier			
Product Name	POLYglide Xcel-200		
Other means of identification			
Product Code(s)	10497		
Synonyms	None		
Recommended use of the chemi	cal and restrictions on use		
Recommended Use	No information available		
Uses advised against	No information available		
Details of the supplier of the safe	ety data sheet		
Supplier Address PfP Industries 29738 Goynes Rd. Katy, TX 77493	<u>Manufacturer Addre</u> PfP Industries 29738 Goynes Rd. Katy, TX 77493	<u>ss</u>	
Emergency telephone number			
Company Phone Number	281-371-2000		
Emergency Telephone	Chemtrec 1-800-424-930	0	
	2. HAZARDS II	DENTIFICATION	
<u>Classification</u>			
This chemical is considered hazard	lous by the 2012 OSHA Haza	rd Communication Standard	(29 CFR 1910.1200)
Flammable liquids		ļc	Category 4

Not applicable

Label elements

Warning Combustible liquid

Revision Date 01-Aug-2019

Appearance	Opaque	Physical state	Liquid	Odor	Mineral Oil
- appoundition	opuquo	i njeteti otalo	Elgara		minorer on

Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

May be harmful in contact with skin Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No	Weight-%	Trade secret
Petroleum distillates, hydrotreated light	64742-47-8	40 - 70	1

*The exact percentage (concentration) of composition has been withheld as a trade secret.

	4. FIRST AID MEASURES
Description of first aid measures	
Inhalation	Remove to fresh air.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8).
Most important symptoms and effect	cts, both acute and delayed
Symptoms	No information available.
Indication of any immediate medica	l attention and special treatment needed
Note to physicians	Treat symptomatically.

Revision Date 01-Aug-2019

	5. FIRE-FIGHTING MEASURES
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.
Explosion data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t None. None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions, protective e	guipment and emergency procedures
Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material.
Environmental precautions	
Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.
Methods and material for containm	ent and cleaning up
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike fa ahead of liquid spill for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
	7. HANDLING AND STORAGE
Precautions for safe handling	
Advice on safe handling	Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation.
Conditions for safe storage, includ	ing any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

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8. EXP	OSURE CONTROLS/PERSONAL PROTECTION
Control parameters	
Exposure Limits	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.
Appropriate engineering controls	
Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	uch as personal protective equipment
Eye/face protection	Tight sealing safety goggles.
Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should no be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Opaque	
Color	Milky white to yellow	
Odor	Mineral Oil	
Odor threshold	No information available	
Property	Values	Remarks • Method
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	>= 67 °C / 153 °F	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	0.97 - 1.03	
Water solubility	Miscible in water	
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	≥150 mm²/s	
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	
and the second		

Revision Date 01-Aug-2019

Other Information	
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.
	the second se

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	5,005.00 mg/kg
ATEmix (dermal)	2,002.00 mg/kg
ATEmix (inhalation-dust/mist)	5.20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50		
Petroleum distillates, hydrotreated light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat)4 h		

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

Skin corrosion/irritation

No information available.

No information available.
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea 4720: 96 h Den-dronereides heteropoda mg/L LC50		
Petroleum distillates, hydrotreated light 64742-47-8		2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static				
Persistence and degrad	ability No informat	ion available.				
Bioaccumulation	There is no	data for this product.				
		111111111111111111111111111111111111111				
Other adverse effects	No informat	ion available.				
	13. DIS	POSAL CONSIDERA	TIONS			
Waste treatment method	is					
Waste from residues/un	ueod Dienose of i	n accordance with local regul	ations Dispose of was	to in accordance with		
products		tal legislation.				
Contaminated packaging	g Do not reus	e empty containers.				
	14. TR	ANSPORT INFORMA	TION			
DOT	Not regulate	ed. Product does not sustain o	combustion (49 CFR 1	73.120(b)(3))		
	15. RE	GULATORY INFORM	ATION			
International Inventories						
TSCA	Complies					
DSL/NDSL	Complies	Complies				
EINECS/ELINCS	Complies					
ENCS		Does not comply				
IECSC		Complies				
KECL	Complies					
EN / AGHS				Page 6/		

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PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

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

3	SARA 311/312 Hazard Categories	
	Acute health hazard	No
	Chronic Health Hazard	No
	Fire hazard	Yes
	Sudden release of pressure hazard	No
	Reactive Hazard	No

CWA (Clean Water Act)

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

CERCLA

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

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State Regulations

This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 2	Flammability 2	Instability 0	Physical and chemical properties -
HMIS	Health hazards 2	Flammability 2	Physical hazards	the second se
Issuing Date	01-Aug-2	019		
Revision Date	01-Aug-2	019		
Revision Note	No inform	nation available.		

Disclaimer

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End of Safety Data Sheet



APPENDIX B

C-4730 Soil Boring Log

										Sample Name: C-4730 (BH01)	Date: 4/17/2023
										Site Name: PLU 27 Brushy Draw 1	
		5			IN	2		LU		Incident No: NAPP2217546910 &	
								Job Number: 03c1558091			
	LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR	Method: Air Rotary	
Co	ord	inates				-				Hole Diameter: 6" dia.	Total Depth: 105' bgs.
Со	Coordinates: 32.10164,-103.87624 Hole Diameter: 6" dia. Total Depth: Comments/Well Construction: no field screening conducted, lithology descriptions/observations only. Total depth to 105' b Total Depth:									depth to 105' bgs, dry hole.	
Moisture	Content	Chloride	(mdd)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
							0.5	0	CCHE	0-40', CALICHE, dry, light br poorly sorted, some fine sand.	own-off white, to medium grain
							10	10		@10', some coarse gravel	
							20	20			
							30	30			
							40	40	SC	40'-80', CLAYEY SAND, dry, poorly sorted, fine to me	reddish brown, dium grain.
							50	50			
							60	60			
							70	70			
							80	80		@80', light brown.	
							90	90			
							100	100			
							105 _ 110 _	110	TD	Total depth at 105 feet bgs	
							-	- -			



APPENDIX C

Photographic Log

Released to Imaging: 2/19/2024 3:33:11 PM





APPENDIX D

Lithologic Soil Sampling Logs

								Sample Name: PH01	Data: 12/12/2022	
		-		-				Site Name: PLU 27 Brushy Draw 16	Date: 12/12/2022	
								Incident Number: NAPP2218236445		
lane.	2			100		Job #: 03E1558091				
			061		SAMPLING	Logged By: MR	Method: Trackhoe			
Coord	linates: 32			-		Hole Diameter: N/A	Total Depth: 3'			
						PID for chloride and vapor, respect	·			
			-					actor is included in all chloride field	-	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des		
D	<156.8	0.2	Ν	SS01	0.5	0.5	CCHE	0-0.5', CALICHE w/ fine sand small sub-round gravel, st 0.5'-3', CALICHE w/ fine san small sub-rounded gravel,	aining, no odor.	
D	1215	0	Ν	PH01	1 _	1				
D	946.4	0.0	Ν		-	2				
D	414.4	0	Ν	PH01A	3	- 3 	TD	Total Depth at 3' bgs.		

								Sample Name: PH02	Date: 12/12/2022	
		-		-	0			Site Name: PLU 27 Brushy Draw 16		
E E N S O L U M								Incident Number: NAPP2218236445		
						Job #: 03E1558091				
			0614		SAMPLING	Logged By: MR	Method: Trackhoe			
Coord	inates: 32			-		Hole Diameter: N/A	Total Depth: 1'			
					vith HACH Ch	PID for chloride and vapor, respect				
			-			actor is included in all chloride field				
Moisture Content	Content Chloride Chloride (ppm) (ppm							Lithologic Descriptions		
					<u></u>	L 0	CCHE	0-0.5', CALICHE w/ fine sanc small sub-round gravel, sta	l, dry, tan, some aining, no odor.	
D	<156.8	0.3	N	SS02	0.5	0.5		0.5'-1', CALICHE w/ fine sand small sub-rounded gravel,	d, dry, tan, some no staining, no odor.	
D	526.4	0.0	Ν	PH02	1	1	TD	Total Depth at 1' bgs.		
						· · · · · · · · · · · · · · · · · · ·				

								Sample Name: DH02	Data: 12/12/2022
		-		-	0 1			Sample Name: PH03 Site Name: PLU 27 Brushy Draw 16	Date: 12/12/2022
		E	N	S	OL		M	Incident Number: NAPP221823644	
Real Property lies				100		Job #: 03E1558091			
 		ייידוו	061		SAMPLING	Logged By: MR	Method: Trackhoe		
Coordi	inates: 32			-	SAIVIPLING	Hole Diameter: N/A	Total Depth: 1'		
						lorido Tost (String and	PID for chloride and vapor, respect	
			-			actor is included in all chloride field			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	
					Ц -	L 0	CCHE	0-0.5', CALICHE w/ fine sand small sub-round gravel, sta	, dry, tan, some aining, no odor.
D	<156.8	0.1	N	SS03	0.5	0.5		0.5'-1', CALICHE w/ fine sand small sub-rounded gravel,	d, dry, tan, some no staining, no odor.
D	470.4	0.0	Ν	PH03	1	- 1			
					-	-	TD	Total Depth at 1' bgs.	
					-	-			
					-	_			
					_	-			
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					4	_			
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					4	_			
					-	-			

								Sample Name: DU04	Date: 12/12/2022		
		-						Sample Name: PH04 Site Name: PLU 27 Brushy Draw 16	Date: 12/12/2022		
		E	N	S	01	- U		Incident Number: NAPP221823644			
ilen m	1		-			Job #: 03E1558091					
			061		SAMPLING	Logged By: MR	Method: Trackhoe				
Coord	inates: 32			-		Hole Diameter: N/A	Total Depth: 3'				
					vith HACH Ch		·				
	Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride field screening results.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des			
D	520.8	2.1	N	SS04	0.5	0.5	CCHE	0-0.5', CALICHE w/ fine sand small sub-round gravel, st 0.5'-3', CALICHE w/ fine san small sub-rounded gravel,	aining, no odor.		
D	>3205	0.0	Ν	PH04	1	- 1 					
D	1215	0	Ν		-	2					
D	470.4	0	Ν	PH04A	3	- 3 	TD	Total Depth at 3' bgs.			

									Sample Name: PH05	Date: 12/12/2022	
	-		-			0			Site Name: PLU 27 Brushy Drav		
	C		-	N	5	01			Incident Number: NAPP221754		
									Job #: 03E1558089		
				OGI		SAMPLING	Logged By: MR	Method: Trackhoe			
Coo	ordi		2.10139,		-		Hole Diameter: N/A	Total Depth: 7'			
_						vith HACH Ch	PID for chloride and vapor, res	· ·			
				-					actor is included in all chloride f		
Moisture	Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions	
D)	>3544.8	1.7	N	SS05	L - 0.5	0.5	CCHE	0-0.5', CALICHE w/ fine sa small sub-round gravel, 0.5'-7', CALICHE w/ fine s small sub-rounded grav	, staining, no odor.	
D)	3181	0.0	Ν	PH05	- - 1 -			small sub-rounded grav	vel, no staining, no odor.	
D)	2100	0	N		-	2				
D)	2100	0	Ν		-	- 3] -				
D)	3181	0	Ν		-	- 4 				
D)	1831	0	Ν	PH05A	5 _	5 				
D)	772.8	0	Ν		-	- 6 -				
D)	515.2	0	Ζ	PH05B	7 -	- 7 - 7 	TD	Total Depth at 7' bgs.		
•

1									
1 m	11	_		-	-		-	Sample Name: PH06	Date: 12/12/2022
			N	S	0	_ U	M	Site Name: PLU 27 Brushy Draw 10	
		_						Incident Number: NAPP22175469	10
			0.01					Job #: 03E1558089	
								Logged By: MR	Method: Trackhoe
							<u></u>	Hole Diameter: N/A	Total Depth: 8'
			-				•	PID for chloride and vapor, respec actor is included in all chloride field	
				_					-
Moisture Content	Chloride (ppm)	n) (Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
oist	Chlorid (ppm)	Vapor (ppm)	ain	ldn	Depth	(ft bgs)	SCS/Roc Symbol	Lithologic Des	scriptions
ΣŬ	C C	/ _	St	Sar	(ft bgs)	(10.00)	USC		
					I	0	CCHE	0-0.5', CALICHE w/ fine sand	d, dry, tan, some
					-	-		small sub-round gravel, st	aining, no odor.
					-	_			
D	929.6	1.8	Ν	SS06	0.5	0.5		0.5'-5', CALICHE w/ fine san small sub-rounded gravel,	d, dry, tan, some
					-	-		Sinali Sub-i Gundeu gravei,	
D	2873	0.0	N	PH06	1	_ 1			
	2075	0.0	IN	FILOO	± _	- ¹			
					_	-			
D	1423	0	Ν		-	2			
					-	-			
					_	_			
D	2679	0	Ν		_	3			
					_	-1			
	1422	0	NI		_				
D	1422	0	Ν		_	_ 4			
					_	-			
D	946.4	0	Ν	PH06A	5 _	5		5'-8', CALICHE w/ fine sand,	drv. med. brown.
					_	-		small sub-rounded gravel,	no staining, no odor.
					-	-			
D	1647	0	Ν		_	6			
					-	-			
	7466	~							
D	716.8	0	Ν		-	7			
D	ND	0	N	PH06B	8	8			
		0		11000		_ 0	TD	Total Depth at 8' bgs.	
						-			
					-				
					-	-			
					_				
						\vdash			
					-	-			
						-			

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									Sample Name: PH07	Date: 12/12/2022
F			-	N	C	01			Site Name: PLU 27 Brushy Draw	161H
Ľ				IX	3		- 0		Incident Number: NAPP2217546	5910
	-								Job #: 03E1558089	
			LITHOL	OGI		SAMPLING	6 LOG		Logged By: MR	Method: Trackhoe
Coordinates: 32.10139, -103.87601							Hole Diameter: N/A	Total Depth: 4'		
Comments: Field screening conducted with HACH Chloride Test Strips and								ectively. Chloride test		
perf	ormed	with	n 1:4 dilu	tion f	actor of so	il to distilled	water. A 40)% error fa	actor is included in all chloride fie	ld screening results.
a)					Δ	C I.		×		
tur	<u>Chloride</u>	Ê	m)	Staining	Sample ID	Sample	Depth	JSCS/Rock Symbol	Lithelesie D	
Moisture	hlo	(mqq)	Vapor (ppm)	tair	dm	Depth	(ft bgs)	CS/	Lithologic D	escriptions
≥ (50		-	Ś	Sa	(ft bgs)		US S		
							0	CCHE	0-0.5', CALICHE w/ fine sa	nd, dry, tan, some
						-	-		small sub-round gravel, s	staining, no odor.
							_			
D	1200	06.4	0	Ν	PH07	0.5	0.5		0.5'-4', CALICHE w/ fine sa small sub-rounded grave	nd, dry, tan, some
						-	-		Sinan Sub-i Gundeu gidve	ה, הס סנמוווווצ, חס סעטר.
Р	1028	01 C	0.0	NI		-	- 1			
D	1028	51.0	0.0	Ν		-	_ 1			
						_	-			
D	54	99	0	Ν		-	2			
_			Ū							
						_	-			
D	29	57	0	Ν		-	3			
						-	-1			
						-	-			
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						-	-	TD	Total Depth at 4' bgs.	
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APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation

Received by OCD: 8/17/2023 1:05:35 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 5/31/2023 12:54:12 PM

JOB DESCRIPTION

PLU 27 Brushy Draw 161H SDG NUMBER 03C1558089

JOB NUMBER

890-4732-1

RT OR ssey lum 1 St. 400 701

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization

AMER

Generated 5/31/2023 12:54:12 PM

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

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

SDG: 03C1558089

Laboratory Job ID: 890-4732-1

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	Definitions/Glossary		
Client: Ensolu Project/Site: F	im PLU 27 Brushy Draw 161H	Job ID: 890-4732-1 SDG: 03C1558089	j
Qualifiers			
GC VOA Qualifier	Qualifier Description		i
*+	LCS and/or LCSD is outside acceptance limits, high biased.		ŝ
S1-	Surrogate recovery exceeds control limits, low biased.		
U	Indicates the analyte was analyzed for but not detected.		ŝ
GC Semi VO			
Qualifier S1-	Qualifier Description		
S1- S1+	Surrogate recovery exceeds control limits, low biased. Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		ï
HPLC/IC	Our life a Description		
Qualifier F1	Qualifier Description MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
0	indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		l
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		
DER	Duplicate Error Ratio (normalized absolute difference)		

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)

Limit of Quantitation (DoD/DOE) LOQ MCL EPA recommended "Maximum Contaminant Level"

Dilution Factor

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL

Dil Fac

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

Practical Quantitation Limit PQL

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

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TNTC Too Numerous To Count

Job ID: 890-4732-1 SDG: 03C1558089

Job ID: 890-4732-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4732-1

Receipt

The samples were received on 5/24/2023 1:59 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS12 (890-4732-1), SS13 (890-4732-2), SS14 (890-4732-3) and SS15 (890-4732-4).

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-54345 and analytical batch 880-54336 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-54318/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-54345/5-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: The surrogate recovery for the blank associated with preparation batch 880-54222 and analytical batch 880-54199 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-54222/2-A) and (LCSD 880-54222/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4734-A-1-C MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-54199/20). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-54199/31). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-54144 and analytical batch 880-54299 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.The associated samples are: SS12 (890-4732-1), SS13 (890-4732-2), SS14 (890-4732-3), SS15 (890-4732-4), (890-4736-A-25-B), (890-4736-A-25-C MS) and (890-4736-A-25-D MSD).

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

Result Qualifier

Qualifier

<0.00201 U*+

<0.00201 U

<0.00201 U

<0.00402 U

<0.00201 U

<0.00402 U

99

101

Result Qualifier

%Recovery

RL

0.00201

0.00201

0.00201

0.00402

0.00201

0.00402

Limits

70 - 130

70 - 130

RL

Job ID: 890-4732-1 SDG: 03C1558089

Analyzed

05/31/23 09:25

05/31/23 09:25

05/31/23 09:25

05/31/23 09:25

05/31/23 09:25

05/31/23 09:25

Analyzed

05/31/23 09:25

05/31/23 09:25

Analyzed

Matrix: Solid

Dil Fac

1

1

1

1

1

1

Dil Fac

Client Sample ID: SS12

Date Collected: 05/24/23 09:20 Date Received: 05/24/23 13:59

Sample Depth: 0.5'

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-4732-1

Prepared

05/30/23 09:01

05/30/23 09:01

05/30/23 09:01

05/30/23 09:01

05/30/23 09:01

05/30/23 09:01

Prepared

05/30/23 09:01

05/30/23 09:01

Prepared

D

D

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

5

Dil Fac	
1	
Dil Fac	13
1	

Total BTEX	<0.00402	U	0.00402	mg/Kg			05/31/23 10:24	1
_ Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/30/23 13:16	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/26/23 09:11	05/26/23 17:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/26/23 09:11	05/26/23 17:32	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/26/23 09:11	05/26/23 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			05/26/23 09:11	05/26/23 17:32	1
o-Terphenyl	83		70 - 130			05/26/23 09:11	05/26/23 17:32	1
_ Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le					
Analyte	· · ·	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.6		4.95	mg/Kg			05/27/23 00:58	1
Client Sample ID: SS13						Lab Sar	nple ID: 890-	4732-2
Date Collected: 05/24/23 09:35								ix: Solid
Jate Conecteu. 03/24/23 03.33							Watri	x. 30110

Date Collected: 05/24/23 09:35 Date Received: 05/24/23 13:59 Sample Depth: 0.5'

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201	mg/Kg		05/30/23 09:01	05/31/23 09:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/30/23 09:01	05/31/23 09:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/30/23 09:01	05/31/23 09:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/30/23 09:01	05/31/23 09:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/30/23 09:01	05/31/23 09:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/30/23 09:01	05/31/23 09:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			05/30/23 09:01	05/31/23 09:52	1

Eurofins Carlsbad

Released to Imaging: 2/19/2024 3:33:11 PM

5/31/2023

Client Sample Results

Job ID: 890-4732-1 SDG: 03C1558089

Lab Sample ID: 890-4732-2

Client Sample ID: SS13

Date Collected: 05/24/23 09:35 Date Received: 05/24/23 13:59

Sample Depth: 0.5'

Client: Ensolum

thod	SW846	8021B -	Volatilo	Organic	Compound	(Contin	

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	104		70 - 130			05/30/23 09:01	05/31/23 09:52	
Method: TAL SOP Total BTEX - T	otal BTEX Calo	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/31/23 10:24	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8	mg/Kg			05/30/23 13:16	
,		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte	• •		• •	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	0	49.8	mg/Kg		05/26/23 09:11	05/26/23 17:54	
	<49.8	U	49.8	mg/Kg		05/26/23 09:11	05/26/23 17:54	
Diesel Range Organics (Over								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/26/23 09:11	05/26/23 17:54	
Diesel Range Organics (Over C10-C28)			49.8 <i>Limits</i>	mg/Kg		05/26/23 09:11 Prepared	05/26/23 17:54 Analyzed	Dil Fa
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8			mg/Kg				Dil Fa

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.2	4.98	mg/Kg			05/27/23 01:14	1

Client Sar

Date Collec Date Receiv Sample Dep

Method: S Analyte Benzene Toluene Ethylbenzene m-Xylene & p o-Xylene Xylenes, Tota Surrogate 4-Bromofluor 1,4-Difluorobenzene (Surr) 95 70 - 130 05/30/23 09:01 05/31/23 10:19 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00401 U 0.00401 mg/Kg 05/31/23 12:24 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac

Furofins	Carlsbad
Luionnis	Gansbaa

05/30/23 13:16

Page 46 of 310

Matrix: Solid

5

BIEX Cal	culation						
		RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00402	U	0.00402	mg/Kg			05/31/23 10:24	1
nge Organ	ics (DRO) (GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<49.8	U	49.8	mg/Kg			05/30/23 13:16	1
ange Orga	nics (DRO)	(GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<49.8	U	49.8	mg/Kg		05/26/23 09:11	05/26/23 17:54	1
<49.8	U	49.8	mg/Kg		05/26/23 09:11	05/26/23 17:54	1
<49.8	U	49.8	mg/Kg		05/26/23 09:11	05/26/23 17:54	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
119		70 - 130			05/26/23 09:11	05/26/23 17:54	1
89		70 - 130			05/26/23 09:11	05/26/23 17:54	1
61.2	Qualifier		mg/Kg	<u> </u>	Prepared	Analyzed 05/27/23 01:14	Dil Fac
					Lab San	nple ID: 890-	4732-3
						Matri	x: Solid
				D			Dil Fac
							1
							1
		0.00200			05/30/23 09:01	05/31/23 10:19	1
<0.00401	U	0.00401	mg/Kg		05/30/23 09:01	05/31/23 10:19	1
<0.00200	U	0.00200	mg/Kg		05/30/23 09:01	05/31/23 10:19	1
<0.00401	U	0.00401	mg/Kg		05/30/23 09:01	05/31/23 10:19	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
104		70 - 130			05/30/23 09:01	05/31/23 10:19	1
	Result <0.00402	Result Qualifier <49.8	Result Qualifier RL <0.00402	Result Qualifier RL Unit <0.00402	Result Qualifier RL Unit pmg/Kg pmg/Kg <td>Result Qualifier RL Unit D Prepared <0.00402</td> 0 0.00402 mg/Kg D Prepared nge Organics (DRO) (GC) Result Qualifier RL Unit D Prepared <49.8	Result Qualifier RL Unit D Prepared <0.00402	Result <0.00402 Qualifier U RL 0.00402 Unit mg/Kg D mg/Kg Prepared Malyzed 05/31/23 10:24 nge Organics (DRO) (GC) Result <49.8

Total TPH

50.0

mg/Kg

<50.0 U

1

Job ID: 890-4732-1 SDG: 03C1558089

Matrix: Solid

5

Lab Sample ID: 890-4732-3

Lab Sample ID: 890-4732-4

Matrix: Solid

Client Sample ID: SS14

Date Collected: 05/24/23 09:40 Date Received: 05/24/23 13:59

Sample Depth: 0.5'

Client: Ensolum

Method: SW846 8015B NM - Die	esel Range Organics (DRO) (GC)	
Analyte	Result Qualifier	RL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/26/23 09:11	05/26/23 18:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/26/23 09:11	05/26/23 18:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/26/23 09:11	05/26/23 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			05/26/23 09:11	05/26/23 18:15	1
o-Terphenyl	86		70 - 130			05/26/23 09:11	05/26/23 18:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.1		4.95	mg/Kg			05/27/23 01:19	1

Client Sample ID: SS15

Date Collected: 05/24/23 09:50

Date Received: 05/24/23 13:59

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		05/30/23 09:01	05/31/23 10:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/30/23 09:01	05/31/23 10:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/30/23 09:01	05/31/23 10:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/30/23 09:01	05/31/23 10:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/30/23 09:01	05/31/23 10:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/30/23 09:01	05/31/23 10:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			05/30/23 09:01	05/31/23 10:46	1
1,4-Difluorobenzene (Surr)	95		70 _ 130			05/30/23 09:01	05/31/23 10:46	1
Analyte Total BTEX	<0.00398		RL	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 05/31/23 12:24	Dil Fac
Method: SW846 8015 NM - Diese Analyte		ICS (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8		49.8	mg/Kg			05/30/23 13:16	1
Method: SW846 8015B NM - Dies								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/26/23 09:11	05/26/23 18:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/26/23 09:11	05/26/23 18:37	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/26/23 09:11	05/26/23 18:37	1

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 1-Chlorooctane
 118
 70 - 130
 05/26/23 09:11
 05/26/23 18:37
 1

 o-Terphenyl
 89
 70 - 130
 05/26/23 09:11
 05/26/23 18:37
 1

		Client	Sample Res	sults								
Client: Ensolum Project/Site: PLU 27 Brushy Draw 16	1H						Job ID: 890 SDG: 03C1		2			
Client Sample ID: SS15 Date Collected: 05/24/23 09:50					Lab Sample ID: 890-4732-4 Matrix: Solid							
Date Received: 05/24/23 13:59 Sample Depth: 0.5'									4			
Method: EPA 300.0 - Anions, Ion C Analyte		hy - Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	5			
Chloride	52.2		5.05	mg/Kg		Tioparca	05/27/23 01:25	1				
									8			
									9			
									13			

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 Client Sample ID (70-130) (70-130) Lab Sample ID 890-4728-A-1-E MS Matrix Spike 88 113 890-4728-A-1-F MSD Matrix Spike Duplicate 92 111 890-4732-1 SS12 99 101 SS13 890-4732-2 86 104 890-4732-3 SS14 104 95 890-4732-4 SS15 91 95 LCS 880-54345/1-A Lab Control Sample 92 111 LCSD 880-54345/2-A Lab Control Sample Dup 89 107 MB 880-54318/5-A Method Blank 54 S1-96 MB 880-54345/5-A Method Blank 55 S1-96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4732-1	SS12	110	83
890-4732-2	SS13	119	89
890-4732-3	SS14	115	86
890-4732-4	SS15	118	89
890-4734-A-1-C MS	Matrix Spike	98	67 S1-
890-4734-A-1-D MSD	Matrix Spike Duplicate	103	70
LCS 880-54222/2-A	Lab Control Sample	86	65 S1-
LCSD 880-54222/3-A	Lab Control Sample Dup	89	67 S1-
MB 880-54222/1-A	Method Blank	188 S1+	150 S1+

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 890-4732-1 SDG: 03C1558089

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

- Lab Sample ID: MB 880-54318/5-	A								Client Sa	mple ID: Metho	od Blank
Matrix: Solid										Prep Type:	Total/NA
Analysis Batch: 54336										Prep Batc	
	МВ	МВ									
Analyte	Result	Qualifier	RL		Unit		D	P	repared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg	J		05/2	7/23 12:55	05/30/23 12:05	1
Toluene	<0.00200	U	0.00200		mg/Kg	J		05/2	7/23 12:55	05/30/23 12:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	J		05/2	7/23 12:55	05/30/23 12:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg)		05/2	7/23 12:55	05/30/23 12:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg	1		05/2	7/23 12:55	05/30/23 12:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	J		05/2	7/23 12:55	05/30/23 12:05	1
	MB	МВ									
Surrogate	%Recovery	Qualifier	Limits					P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130					05/2	7/23 12:55	05/30/23 12:05	1
1,4-Difluorobenzene (Surr)	96		70 - 130					05/2	7/23 12:55	05/30/23 12:05	1
-											
Lab Sample ID: MB 880-54345/5-	A								Client Sa	mple ID: Metho	
Matrix: Solid										Prep Type:	
Analysis Batch: 54336										Prep Batc	h: 54345
		MB									
Analyte	Result				Unit		D		repared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200		mg/Kg)		05/3	0/23 09:01	05/31/23 01:49	1
Toluene	<0.00200	U	0.00200		mg/Kg	1		05/3	0/23 09:01	05/31/23 01:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg]		05/3	0/23 09:01	05/31/23 01:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg	3		05/3	0/23 09:01	05/31/23 01:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg	J		05/3	0/23 09:01	05/31/23 01:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	J		05/3	0/23 09:01	05/31/23 01:49	1
	MB	МВ									
Surrogate	%Recovery	Qualifier	Limits					P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130					05/3	0/23 09:01	05/31/23 01:49	1
1,4-Difluorobenzene (Surr) -	96		70 - 130					05/3	0/23 09:01	05/31/23 01:49	1
- Lab Sample ID: LCS 880-54345/1	I- A						C	lient	Sample	ID: Lab Control	Sample
Matrix: Solid										Prep Type:	
Analysis Batch: 54336										Prep Batc	
			Spike	LCS	LCS					%Rec	
Analyte			Added		Qualifier	Unit		D	%Rec	Limits	
Benzene	······		0.100	0.1289		mg/Kg			129	70 - 130	
Toluene			0.100	0.1211		mg/Kg			121	70 - 130	
Ethylbenzene			0.100	0.1149		mg/Kg			115	70 - 130	
m-Xylene & p-Xylene			0.200	0.2242		mg/Kg			110	70 - 130	
o-Xylene			0.100	0.2242		mg/Kg			112	70 - 130	
0-Xylene			0.100	0.1110		ing/itg			112	70 - 150	
Surrogata	LCS LCS		Limito								
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery Qua	iiiier	Limits 70 - 130								
1,4-Difluorobenzene (Surr)	92 111		70 - 130 70 - 130								
Lab Sample ID: LCSD 880-54345	5/2-A					Cli	ent	Sam	ple ID: L	ab Control San	
Matrix: Solid										Prep Type:	Total/NA
Analysis Batch: 54336										Prep Batc	h: 54345
			Spike	LCSD	LCSD					%Rec	RPD
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits RP	D Limit

Job ID: 890-4732-1 SDG: 03C1558089

5 7 8

0.100

0.1316 *+

mg/Kg

132

70 - 130

2

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35

Benzene

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H Job ID: 890-4732-1 SDG: 03C1558089

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

Lab Sample ID: LCSD 880-5	4345/2-A					Clier	nt Sam	n <mark>ple ID:</mark> I	Lab Contro	I Sampl	e Duj
Matrix: Solid									Prep 1	Type: To	tal/N
Analysis Batch: 54336									Prep	Batch:	5434
-			Spike	LCSD	LCSD				%Rec		RPI
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Toluene			0.100	0.1240		mg/Kg		124	70 - 130	2	3
Ethylbenzene			0.100	0.1162		mg/Kg		116	70 - 130	1	3
m-Xylene & p-Xylene			0.200	0.2264		mg/Kg		113	70 - 130	1	3
o-Xylene			0.100	0.1136		mg/Kg		114	70 - 130	2	3
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	89		70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								
Lab Sample ID: 890-4728-A-	1-E MS							Client	Sample ID	: Matrix	Spik
Matrix: Solid										Type: To	
Analysis Batch: 54336										Batch:	
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00198	U *+	0.101	0.1069		mg/Kg		106	70 - 130		
Toluene	<0.00198	U	0.101	0.09602		mg/Kg		95	70 - 130		
Ethylbenzene	<0.00198	U	0.101	0.09280		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene	<0.00396	U	0.202	0.1813		mg/Kg		90	70 - 130		
o-Xylene	<0.00198	U	0.101	0.09137		mg/Kg		90	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	88		70 - 130								
1,4-Difluorobenzene (Surr)	113		70 - 130								
Lab Sample ID: 890-4728-A-	1-F MSD					CI	ient Sa	ample IC): Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep 1	Type: To	tal/N/
Analysis Batch: 54336									Prep	Batch:	5434
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene	<0.00198	U *+	0.0992	0.1168		mg/Kg		118	70 - 130	9	3
Toluene	<0.00198	U	0.0992	0.1067		mg/Kg		108	70 - 130	11	3
Ethylbenzene	<0.00198	U	0.0992	0.09612		mg/Kg		97	70 - 130	4	3
m-Xylene & p-Xylene	<0.00396	U	0.198	0.1857		mg/Kg		94	70 - 130	2	3
o-Xylene	<0.00198		0.0992	0.09811		mg/Kg		99	70 - 130	7	3

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

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

Lab Sample ID: MB 880-54222/1-A Matrix: Solid Analysis Batch: 54199	мв	МВ				Client Sa	mple ID: Metho Prep Type: ٦ Prep Batch	Total/NA
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/26/23 08:00	05/26/23 08:25	1
(GRO)-C6-C10								

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Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

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

ab Sample ID: MB 880-54222/1	/ 1-A								Client	L Sample I	ID: Method	d Blank
atrix: Solid											ep Type: To	
nalysis Batch: 54199										P ⁱ	rep Batch:	: 54222
-		МВ	МВ								-	
nalyte			Qualifier	RL		Unit		D	Prepared	An An	nalyzed	Dil Fac
Diesel Range Organics (Over	<	<50.0	U	50.0		mg/K	(g	_	05/26/23 08:	:00 05/26	6/23 08:25	1
C10-C28)											_	
Oll Range Organics (Over C28-C36)	<	<50.0	U	50.0		mg/K	٠g		05/26/23 08:	.00 05/26/	6/23 08:25	1
		ΜВ	МВ									
Surrogate	%Reco			Limits					Prepared	i An	nalyzed	Dil Fac
I-Chlorooctane		-		70 - 130					05/26/23 08:		6/23 08:25	1
o-Terphenyl		150	S1+	70 - 130					05/26/23 08:	:00 05/26	6/23 08:25	1
ab Sample ID: LCS 880-54222	2/ 2-A							С	Client Samp			
Matrix: Solid											ep Type: To	
Analysis Batch: 54199										P	rep Batch:	: 54222
				Spike	LCS	LCS				%Rec		
Analyte				Added		Qualifier	Unit		D %Rec			
Gasoline Range Organics		_		1000	901.4	-	mg/Kg		90	70 - 130	0	_
GRO)-C6-C10					210.0				01	T0 40		
Diesel Range Organics (Over				1000	919.3		mg/Kg		92	2 70 - 130	0	
C10-C28)												
	LCS	LCS	i -									
Surrogate			lifier	Limits								
1-Chlorooctane	86			70 - 130								
o-Terphenyl	65	S1-		70 - 130								
	00/0 A						CI	ton(Comple IF	t ah Cor	the Some	ste Dun
Lab Sample ID: LCSD 880-5422 Matrix: Solid	2213-A						Un Un	em	t Sample ID			
Matrix: Solid											ep Type: To Prop Batch:	
Analysis Batch: 54199				Shika	1050	LCSD				Pr %Rec	rep Batch:	RPD
Analyte				Spike Added		LCSD Qualifier	Unit		D %Rec			
Gasoline Range Organics				1000	915.8		_ Unit mg/Kg		<u>D%Rec</u> 92			
Gasoline Range Organics (GRO)-C6-C10				1000	310.0		Ingris		~~	10-100	J _	20
Diesel Range Organics (Over				1000	896.6		mg/Kg		90) 70 - 130	30 2	20
C10-C28)							<u> </u>				-	
·	LCSD	100	· n									
•	LCSD %Recovery			l imita								
Surrogate	89	Qua.	/ifier	Limits 70 - 130								
		S1-		70 - 130 70 - 130								
p-Terphenyl	07	51-		10 - 130								
_ab Sample ID: 890-4734-A-1-C	∩ MS								Clie	nt Sample	e ID: Matrix	× Spike
Matrix: Solid	/ Inc										ep Type: To	
Analysis Batch: 54199											rep Batch:	
	Sample	Sam	nle	Spike	MS	MS				%Rec		
Analyte	Result		-	Added		Qualifier	Unit		D %Rec			

Analysis Batch: 54199									Pre	p Batch: 54222
	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	815.9		mg/Kg		79	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	721.0		mg/Kg		71	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 _ 130
o-Terphenyl	67	S1-	70 _ 130

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Job ID: 890-4732-1

SDG: 03C1558089

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

Job ID: 890-4732-1 SDG: 03C1558089

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

							_): Matrix S		lieste
Lab Sample ID: 890-4734-A-	1-D MSD					(Clien	τ 5a	inple ib	. Matrix S	ріке Dup	ncate
Matrix: Solid											Гуре: То	
Analysis Batch: 54199											Batch:	
	Sample	Sample	Spike	MSD	MSD					%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Gasoline Range Organics	<50.0		999	841.2		mg/Kg			82	70 - 130	3	2
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.0	U	999	765.9		mg/Kg			75	70 - 130	6	2
C10-C28)												
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	103		70 - 130									
o-Terphenyl	70		70 - 130									
lethod: 300.0 - Anions,	Ion Chromat	ography										
Lab Sample ID: MB 880-541	44/1-A								Client S	ample ID:	Method	Blan
Matrix: Solid										Prep	Type: Se	olubl
Analysis Batch: 54299												
		MB MB										
Analyte	Re	esult Qualifier		RL	Unit		D	Pr	epared	Analyz	zed	Dil Fa
											22.06	
Chloride	<	5.00 U		5.00	mg/K	g				05/26/23	23.00	
		5.00 U		5.00	mg/K	g						
Lab Sample ID: LCS 880-541		5.00 U		5.00	mg/K	9	Cli	ent	Sample	ID: Lab C	ontrol Sa	ampl
Lab Sample ID: LCS 880-541		5.00 U		5.00	mg/K	9	Cli	ent	Sample	ID: Lab C		ampl
Lab Sample ID: LCS 880-541 Matrix: Solid		5.00 U				9	Cli	ent	Sample	ID: Lab Co Prep	ontrol Sa	ampl
Lab Sample ID: LCS 880-541 Matrix: Solid		5.00 U	Spike		mg/K	9	Cli	ent	Sample	ID: Lab C	ontrol Sa	ampl
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299		:5.00 U	Added	LCS Result		g Unit	Cli	ent	%Rec	B ID: Lab Co Prep %Rec Limits	ontrol Sa	ample
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 ^{Analyte}		:5.00 U		LCS	LCS	-	Cli		-	ID: Lab Co Prep %Rec	ontrol Sa	ampl
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride	144/2-A	:5.00 U	Added	LCS Result	LCS	Unit mg/Kg		<u>D</u> .	%Rec	ID: Lab Concernment Prep %Rec <u>Limits</u> 90 - 110	ontrol Sa Type: So	amplo
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-5	144/2-A	:5.00 U	Added	LCS Result	LCS	Unit mg/Kg		<u>D</u> .	%Rec	P ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro	ontrol Sa Type: So 	ample olubl
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-54 Matrix: Solid	144/2-A	:5.00 U	Added	LCS Result	LCS	Unit mg/Kg		<u>D</u> .	%Rec	P ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro	ontrol Sa Type: So	amplo olubi
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-54 Matrix: Solid	144/2-A	:5.00 U	Added 250	LCS Result 259.4	LCS Qualifier	Unit mg/Kg		<u>D</u> .	%Rec	P ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep	ontrol Sa Type: So 	amplo olubi e Du olubi
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-5 Matrix: Solid Analysis Batch: 54299	144/2-A	:5.00 U	Added	LCS Result 259.4 LCSD	LCS Qualifier LCSD	Unit mg/Kg Cli		<u>D</u> .	%Rec 104 ple ID: I	e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec	ontrol Sa Type: So ol Sampl Type: So	e Duj olubi e Duj olubi
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-5 Matrix: Solid Analysis Batch: 54299 Analyte	144/2-A	:5.00 U	Added 250 Spike	LCS Result 259.4 LCSD	LCS Qualifier	Unit mg/Kg		D Sam	%Rec	P ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep	ontrol Sa Type: So 	e Duj olubi e Duj olubi RPi Lim
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-5 Matrix: Solid Analysis Batch: 54299 Analyte	144/2-A	:5.00 U	Added 250 Spike Added	LCS Result 259.4 LCSD Result	LCS Qualifier LCSD	Unit mg/Kg Cli		D Sam	%Rec 104 ple ID: I	e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	ontrol Sa Type: So ol Sampl Type: So 	e Du olubi e Du olubi RP
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-54 Matrix: Solid Analysis Batch: 54299 Analyte Chloride	144/2-A 4144/3-A	:5.00 U	Added 250 Spike Added	LCS Result 259.4 LCSD Result	LCS Qualifier LCSD	Unit mg/Kg Cli		D Sam	%Rec 104 ple ID: I %Rec 103	e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	ontrol Sa Type: So ol Sampl Type: So 1	e Duj olubi olubi clubi RPi Lim 2
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-54 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A-	144/2-A 4144/3-A	:5.00 U	Added 250 Spike Added	LCS Result 259.4 LCSD Result	LCS Qualifier LCSD	Unit mg/Kg Cli		D Sam	%Rec 104 ple ID: I %Rec 103	e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	ontrol Sa Type: So ol Sampl Type: So 1	e Duj olubi olubi RPI Lim 2 Spik
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-54 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid	144/2-A 4144/3-A	:5.00 U	Added 250 Spike Added	LCS Result 259.4 LCSD Result	LCS Qualifier LCSD	Unit mg/Kg Cli		D Sam	%Rec 104 ple ID: I %Rec 103	e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1	e Duj olubi olubi RPI Lim 2 Spik
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-54 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid	144/2-A 4144/3-A		Added 250 Spike Added	LCS Result 259.4 LCSD Result 257.5	LCS Qualifier LCSD	Unit mg/Kg Cli		D Sam	%Rec 104 ple ID: I %Rec 103	e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1	e Duj olubi olubi RPI Lim 2 Spika
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-55 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid Analysis Batch: 54299	144/2-A 4144/3-A 25-C MS Sample		Added 250 Spike Added 250	LCS Result 259.4 LCSD Result 257.5	LCS Qualifier LCSD Qualifier	Unit mg/Kg Cli		D Sam	%Rec 104 ple ID: I %Rec 103	A ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1	e Duj olubi olubi RPI Lim 2 Spika
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-5 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid Analysis Batch: 54299 Analyte	144/2-A 4144/3-A 25-C MS Sample	Sample Qualifier	Added 250 Spike Added 250 Spike	LCS Result 259.4 LCSD Result 257.5	LCS Qualifier LCSD Qualifier MS Qualifier	Unit mg/Kg Cli Unit mg/Kg		D Sam	%Rec 104 ple ID: I %Rec 103 Client	e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1	e Duj olubi olubi RPI Lim 2 Spika
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-55 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid Analysis Batch: 54299 Analyte Chloride	144/2-A 4144/3-A 25-C MS 25-C MS Sample Result 839	Sample Qualifier	Added 250 Spike Added 250 Spike Added	LCS Result 259.4 LCSD Result 257.5 MS Result	LCS Qualifier LCSD Qualifier MS Qualifier	Unit mg/Kg Unit mg/Kg		D bam D	%Rec 104 ple ID: I %Rec 103 Client %Rec 77	e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1 : Matrix Type: So	e Du olubi RP Lim 2 Spik olubi
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-54 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A-	144/2-A 4144/3-A 25-C MS 25-C MS Sample Result 839	Sample Qualifier	Added 250 Spike Added 250 Spike Added	LCS Result 259.4 LCSD Result 257.5 MS Result	LCS Qualifier LCSD Qualifier MS Qualifier	Unit mg/Kg Unit mg/Kg		D bam D	%Rec 104 ple ID: I %Rec 103 Client %Rec 77	e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1 : Matrix Type: So	e Du olubi RP Lim 2 Spik olubi
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-54 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid	144/2-A 4144/3-A 25-C MS 25-C MS Sample Result 839	Sample Qualifier	Added 250 Spike Added 250 Spike Added	LCS Result 259.4 LCSD Result 257.5 MS Result	LCS Qualifier LCSD Qualifier MS Qualifier	Unit mg/Kg Unit mg/Kg		D bam D	%Rec 104 ple ID: I %Rec 103 Client %Rec 77	e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1 : Matrix Type: So pike Dup	e Du olubi RP Lim 2 Spik olubi
Chloride Lab Sample ID: LCS 880-544 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-54 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid Analysis Batch: 54299	144/2-A 4144/3-A 25-C MS 25-C MS Sample Result 839	Sample Qualifier F1	Added 250 Spike Added 250 Spike Added	LCS Result 259.4 LCSD Result 257.5 MS Result 1033	LCS Qualifier LCSD Qualifier MS Qualifier	Unit mg/Kg Unit mg/Kg		D bam D	%Rec 104 ple ID: I %Rec 103 Client %Rec 77	e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1 : Matrix Type: So pike Dup	e Duy oluble RPI Limi 2 Spike oluble
Lab Sample ID: LCS 880-541 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: LCSD 880-54 Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid Analysis Batch: 54299 Analyte Chloride Lab Sample ID: 890-4736-A- Matrix: Solid	144/2-A 4144/3-A 25-C MS 25-C MS <u>Sample</u> 25-D MSD Sample	Sample Qualifier F1	Added 250 Spike Added 250 Spike Added 250	LCS Result 259.4 LCSD Result 257.5 MS Result 1033	LCS Qualifier LCSD Qualifier F1	Unit mg/Kg Unit mg/Kg		D bam D	%Rec 104 ple ID: I %Rec 103 Client %Rec 77	e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 Sample ID Prep	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1 : Matrix Type: So pike Dup	e Duj olubi RPI Lim 2 Spike olubi

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QC Association Summary

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

Lab Control Sample

Matrix Spike

Lab Control Sample Dup

Matrix Spike Duplicate

Job ID: 890-4732-1 SDG: 03C1558089

GC VOA

Prep Batch: 54318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54318/5-A	Method Blank	Total/NA	Solid	5035	
nalysis Batch: 54336	5				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
390-4732-1	SS12	Total/NA	Solid	8021B	5434
90-4732-2	SS13	Total/NA	Solid	8021B	5434
390-4732-3	SS14	Total/NA	Solid	8021B	5434
390-4732-4	SS15	Total/NA	Solid	8021B	5434
/IB 880-54318/5-A	Method Blank	Total/NA	Solid	8021B	5431
MB 880-54345/5-A	Method Blank	Total/NA	Solid	8021B	5434

Total/NA

Total/NA

Total/NA

Total/NA

Solid

Solid

Solid

Solid

8021B

8021B

8021B

8021B

890-4728-A-1-F MSD Prep Batch: 54345

LCS 880-54345/1-A

LCSD 880-54345/2-A

890-4728-A-1-E MS

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4732-1	SS12	Total/NA	Solid	5035	
890-4732-2	SS13	Total/NA	Solid	5035	
890-4732-3	SS14	Total/NA	Solid	5035	
890-4732-4	SS15	Total/NA	Solid	5035	
MB 880-54345/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54345/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54345/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4728-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4728-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 54485

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4732-1	SS12	Total/NA	Solid	Total BTEX	
890-4732-2	SS13	Total/NA	Solid	Total BTEX	
890-4732-3	SS14	Total/NA	Solid	Total BTEX	
890-4732-4	SS15	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 54199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4732-1	SS12	Total/NA	Solid	8015B NM	54222
890-4732-2	SS13	Total/NA	Solid	8015B NM	54222
890-4732-3	SS14	Total/NA	Solid	8015B NM	54222
890-4732-4	SS15	Total/NA	Solid	8015B NM	54222
MB 880-54222/1-A	Method Blank	Total/NA	Solid	8015B NM	54222
LCS 880-54222/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54222
LCSD 880-54222/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54222
890-4734-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	54222
890-4734-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	54222
Prep Batch: 54222					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4732-1	SS12	Total/NA	Solid	8015NM Prep	

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8

|2 |3

54345

54345

54345

54345

QC Association Summary

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

GC Semi VOA (Continued)

Prep Batch: 54222 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4732-2	SS13	Total/NA	Solid	8015NM Prep	
890-4732-3	SS14	Total/NA	Solid	8015NM Prep	
890-4732-4	SS15	Total/NA	Solid	8015NM Prep	
MB 880-54222/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54222/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54222/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4734-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4734-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4732-1	SS12	Total/NA	Solid	8015 NM	
890-4732-2	SS13	Total/NA	Solid	8015 NM	
890-4732-3	SS14	Total/NA	Solid	8015 NM	
890-4732-4	SS15	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 54144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4732-1	SS12	Soluble	Solid	DI Leach	
390-4732-2	SS13	Soluble	Solid	DI Leach	
390-4732-3	SS14	Soluble	Solid	DI Leach	
890-4732-4	SS15	Soluble	Solid	DI Leach	
MB 880-54144/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-54144/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-54144/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-4736-A-25-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4736-A-25-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 54299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4732-1	SS12	Soluble	Solid	300.0	54144
890-4732-2	SS13	Soluble	Solid	300.0	54144
890-4732-3	SS14	Soluble	Solid	300.0	54144
890-4732-4	SS15	Soluble	Solid	300.0	54144
MB 880-54144/1-A	Method Blank	Soluble	Solid	300.0	54144
LCS 880-54144/2-A	Lab Control Sample	Soluble	Solid	300.0	54144
LCSD 880-54144/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54144
890-4736-A-25-C MS	Matrix Spike	Soluble	Solid	300.0	54144
890-4736-A-25-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	54144

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Job ID: 890-4732-1

SDG: 03C1558089

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9

Job ID: 890-4732-1 SDG: 03C1558089

Lab Sample ID: 890-4732-1 Matrix: Solid

Lab Sample ID: 890-4732-2

Lab Sample ID: 890-4732-3

Lab Sample ID: 890-4732-4

Client Sample ID: SS12 Date Collected: 05/24/23 09:20 Date Received: 05/24/23 13:59

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54345	05/30/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54336	05/31/23 09:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54485	05/31/23 10:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54408	05/30/23 13:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54222	05/26/23 09:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54199	05/26/23 17:32	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54144	05/25/23 10:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54299	05/27/23 00:58	SMC	EET MID

Client Sample ID: SS13

Date Collected: 05/24/23 09:35

Date Received: 05/24/23 13:59

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	54345	05/30/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54336	05/31/23 09:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54485	05/31/23 10:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54408	05/30/23 13:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54222	05/26/23 09:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54199	05/26/23 17:54	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54144	05/25/23 10:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54299	05/27/23 01:14	SMC	EET MID

Client Sample ID: SS14

Date Collected: 05/24/23 09:40

Date Received: 05/24/23 13:59

	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	54345	05/30/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54336	05/31/23 10:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54485	05/31/23 12:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54408	05/30/23 13:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54222	05/26/23 09:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54199	05/26/23 18:15	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54144	05/25/23 10:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54299	05/27/23 01:19	SMC	EET MID

Client Sample ID: SS15 Date Collected: 05/24/23 09:50 Date Received: 05/24/23 13:59

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54345	05/30/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54336	05/31/23 10:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54485	05/31/23 12:24	SM	EET MID

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Matrix: Solid

Released to Imaging: 2/19/2024 3:33:11 PM

Job ID: 890-4732-1 SDG: 03C1558089

Matrix: Solid

Lab Sample ID: 890-4732-4

Client Sample ID: SS15 Date Collected: 05/24/23 09:50

Client: Ensolum

Date Received: 05/24/23 13:59

	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			54408	05/30/23 13:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54222	05/26/23 09:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54199	05/26/23 18:37	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54144	05/25/23 10:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54299	05/27/23 01:25	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

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	-				
Client: Ensolum Project/Site: PLU 27 Br	rushy Draw 161H			Job ID: 890-4732-1 SDG: 03C1558089	
Laboratory: Eurofi Unless otherwise noted, all a	ins Midland analytes for this laboratory we	ere covered under each acc	reditation/certification below.		
Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-25	06-30-23	5
• •		it the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for which	
the agency does not of Analysis Method	Prep Method	Matrix	Analyte		
8015 NM	·	Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					11
					13
					14

Client: Ensolum

Job ID: 890-4732-1 SDG: 03C1558089

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
Protocol Refe	rences:		
ASTM = A	STM International		
FPA = US	Environmental Protection Agency		

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Job ID: 890-4732-1 SDG: 03C1558089

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-4732-1	SS12	Solid	05/24/23 09:20	05/24/23 13:59	0.5'	
890-4732-2	SS13	Solid	05/24/23 09:35	05/24/23 13:59	0.5'	
890-4732-3	SS14	Solid	05/24/23 09:40	05/24/23 13:59	0.5'	5
890-4732-4	SS15	Solid	05/24/23 09:50	05/24/23 13:59	0.5'	
						8
						C
						9
						1
						1:

	Xenco		Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	TX (214) 902-0300 o, TX (210) 509-3334 , TX (806) 794-1296 NM (575) 988-3199		Work Order No:
Project Manager: E	Ben Belill	Bill to: (if different)	Garrett Green			Work Order Comments
	Ensolum	Company Name:	XTO Energy			Program: UST/PST PRP Brownfields RRC Superfund
	3122 National Parks Hwy	Address:	3104 E. Green St.			State of Project:
e ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220			Reporting: Level II Level III PST/UST TRRP
	303-887-2946	Email: Garrett.Green@ExxonMobil.com	xonMobil.com			Deliverables: EDD
Project Name:	PLU 27 Brushy Draw 161H	Turn Around			ANALYSIS REQU	ANALYSIS REQUEST
Project Number:		✓ Routine 🗌 Rush	Code			
Project Location:	ס	Due Date: S-Jey		-		
Sampler's Name:	Connor Whitman T,	TAT starts the day received by the lab if received hy 4:30nm	-			
PO#		the lab, if received by 4:30pm			-	
SAMPLE RECEIPT	Temp Blank: Lyss No	Wet Ice: Yes No	0.0)			
Samples Received Intact:		TAM PT	3000			
Cooler Custody Seals:	Yes No NA Correction Factor		PA:			
Sample Custody Seals:	s: Yes No NA Temperature Reading:	ding: 3.0				
Total Containers:	Corrected Temperature:		015	890-4	890-4732 Chain oi Cusi	132 Challi di Custory
Sample Identification	Matrix Sampled	Time Depth Graby Sampled Depth Comp	Cont CHLO TPH (BTEX			
56/3		1 5 56	111	+		
1155			111			
5155			111			
1						
			2			
				-		
Total 200.7 / 6010	8RC	RA 13PPM Texas 11 AI S	Sh As Ba Be B Cd Sh As Ba Be Cd	Cr Co	Co Cu Fe Pb Cu Pb Mn Mo	
Votice: Signature of this do Service. Eurofins Xenco	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontra 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 los	a valid purchase order from cli not assume any responsibility	ompany to Eurofins Xenco, its ny losses or expenses incurre	s affiliate d by the		W 2111
Relinquished by: (Signature)		Received by: (Signature)	Date/Time F	Relinqui	shed by: (Signatur	
Choto	Amerala	1 Sty	5/24/23140			
			0			

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12 13 14

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4732 List Number: 1 Creator: Stutzman, Amanda

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

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 4732 List Number: 2 Creator: Rodriguez, Leticia

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

Job Number: 890-4732-1 SDG Number: 03C1558089 List Source: Eurofins Midland 5 6 7 8 9 10 11 12 13 List Creation: 05/26/23 11:41 AM

14

Received by OCD: 8/17/2023 1:05:35 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/22/2022 12:58:24 PM

JOB DESCRIPTION

PLU 27 BD 161H SDG NUMBER Eddy County NM

JOB NUMBER

890-3637-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220





Received by OCD: 8/17/2023 1:05:35 PM

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Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 12/22/2022 12:58:24 PM

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

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

Laboratory Job ID: 890-3637-1 SDG: Eddy County NM

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Receipt Checklists	22

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Definitions/Glossary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3637-1 SDG: Eddy County NM

Qualifiers		- 3
GC VOA		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	_
GC Semi VOA		5
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	- 6
F2	MS/MSD RPD exceeds control limits	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		8
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	9
Glossary		4
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
a	Listed under the "D" column to designate that the result is reported on a dry weight basis	4
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

PRES

QC

RER

RPD

TEF

TEQ

TNTC

RL

Job ID: 890-3637-1 SDG: Eddy County NM

Job ID: 890-3637-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: PLU 27 BD 161H

Narrative

Job Narrative 890-3637-1

Receipt

The samples were received on 12/13/2022 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS05 (890-3637-1) and SS06 (890-3637-2).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-22528-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-41926/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-41926 and analytical batch 880-41982 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-41926 and analytical batch 880-41982 was outside control limits. Sample non-homogeneity is suspected.

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.

RL

Unit

D

Prepared

Job ID: 890-3637-1 SDG: Eddy County NM

Client Sample ID: SS05

Project/Site: PLU 27 BD 161H

Date Collected: 12/07/22 12:45 Date Received: 12/13/22 13:30 Sample Depth: 0.5'

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

Result Qualifier

Lab Sample ID: 890-3637-1 Matrix: Solid

Analyzed

5 Dil Fac

Analyte	Result	Quaimer		Onit		Fiepareu	Analyzeu	Dirrac
Benzene	< 0.00199	U	0.00199	mg/Kg		12/20/22 21:30	12/21/22 19:17	1
Toluene	0.00370		0.00199	mg/Kg		12/20/22 21:30	12/21/22 19:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/20/22 21:30	12/21/22 19:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/20/22 21:30	12/21/22 19:17	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/20/22 21:30	12/21/22 19:17	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/20/22 21:30	12/21/22 19:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			12/20/22 21:30	12/21/22 19:17	1
1,4-Difluorobenzene (Surr)	118		70 - 130			12/20/22 21:30	12/21/22 19:17	1
☐ Method: TAL SOP Total BTEX - 1	Total BTEX Cal	sulation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398		0.00398			Flepaleu	12/22/22 13:15	
	<0.00396	U	0.00398	mg/Kg			12/22/22 13.15	1
Method: SW846 8015 NM - Diese	• •							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/19/22 15:03	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/15/22 14:18	12/16/22 16:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		12/15/22 14:18	12/16/22 16:35	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 14:18	12/16/22 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			12/15/22 14:18	12/16/22 16:35	1
o-Terphenyl	107		70 - 130			12/15/22 14:18	12/16/22 16:35	1
_ Method: MCAWW 300.0 - Anions	. Ion Chromate	ography - S	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6580		100	mg/Kg			12/19/22 21:18	20
Client Sample ID: SS06						Lah Sar	nple ID: 890-	3637-2
Date Collected: 12/07/22 13:00						Lub Our		ix: Solid
Date Received: 12/13/22 13:30							matri	x. oonu
Sample Depth: 0.5'								
-	0							
Method: SW846 8021B - Volatile Analyte	•	OUNDS (GC Qualifier) RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201		0.00201	0mt mg/Kg		12/20/22 21:30	12/21/22 19:37	1
Toluene	<0.00201		0.00201	mg/Kg		12/20/22 21:30	12/21/22 19:37	1
Ethylbenzene	< 0.00201		0.00201	mg/Kg		12/20/22 21:30	12/21/22 19:37	1
m-Xylene & p-Xylene	< 0.00402	U	0.00402	mg/Kg		12/20/22 21:30	12/21/22 19:37	1

1 1 Fac 1

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Client: Ensolum

Analyte

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		12/20/22 21:30	12/21/22 19:37	
Toluene	<0.00201	U	0.00201	mg/Kg		12/20/22 21:30	12/21/22 19:37	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/20/22 21:30	12/21/22 19:37	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/20/22 21:30	12/21/22 19:37	
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/20/22 21:30	12/21/22 19:37	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/20/22 21:30	12/21/22 19:37	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	102		70 - 130			12/20/22 21:30	12/21/22 19:37	

Released to Imaging: 2/19/2024 3:33:11 PM

Client Sample Results

Job ID: 890-3637-1 SDG: Eddy County NM

Client Sample ID: SS06

Project/Site: PLU 27 BD 161H

Client: Ensolum

Date Collected: 12/07/22 13:00 Date Received: 12/13/22 13:30

Lab Sample ID: 890-3637-2 Matrix: Solid

Date Received: 12/13/22 13:30 Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130			12/20/22 21:30	12/21/22 19:37	1
Method: TAL SOP Total BTEX - To	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/22/22 13:15	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	88.0		49.9	mg/Kg			12/19/22 15:03	1
Method: SW846 8015B NM - Dies Analyte		Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
				Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		12/15/22 14:18	12/16/22 16:57	1
(GRO)-C6-C10 Diesel Range Organics (Over	88.0	*4	49.9	mg/Kg		12/15/22 14:18	12/16/22 16:57	1
C10-C28)	00.0	·	43.3	ing/itg		12/13/22 14:10	12/10/22 10:57	'
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 14:18	12/16/22 16:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			12/15/22 14:18	12/16/22 16:57	1
o-Terphenyl	98		70 - 130			12/15/22 14:18	12/16/22 16:57	1
Mothod: MCAMM/200.0 Ariona	lon Chromoto	aranhu S	alubla					
Method: MCAWW 300.0 - Anions, Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Job ID: 890-3637-1 SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 Lab Sample ID Client Sample ID (70-130) (70-130) 880-22528-A-1-C MS Matrix Spike 97 109 880-22528-A-1-D MSD Matrix Spike Duplicate 104 117 890-3637-1 SS05 105 118 SS06 890-3637-2 102 107 LCS 880-42357/1-A Lab Control Sample 109 113 Lab Control Sample Dup LCSD 880-42357/2-A 123 117 MB 880-42357/5-A Method Blank 85 102 Surrogate Legend BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
15-A-1-E MS	Matrix Spike	109	98	
615-A-1-F MSD	Matrix Spike Duplicate	105	86	
3637-1	SS05	112	107	
37-2	SS06	101	98	
0-41926/2-A	Lab Control Sample	98	111	
880-41926/3-A	Lab Control Sample Dup	128	134 S1+	
80-41926/1-A	Method Blank	112	115	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Prep Type: Total/NA

Job ID: 890-3637-1 SDG: Eddy County NM

Prep Type: Total/NA

Client Sample ID: Method Blank

Project/Site: PLU 27 BD 161H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42357/5-A	
•	

Matrix: Solid Analysis Batch: 42409

Client: Ensolum

Analysis Batch: 42409							Prep Batch	n: 42357
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			12/20/22 21:30	12/21/22 17:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/20/22 21:30	12/21/22 17:53	1

Lab Sample ID: LCS 880-42357/1-A Matrix: Solid

Analysis Batch: 42409

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09323		mg/Kg		93	70 - 130	
Toluene	0.100	0.09102		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09651		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130	
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-42357/2-A

Matrix: Solid

Analysis Batch: 42409							Prep Batch: 42357		
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09835		mg/Kg		98	70 - 130	5	35
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	11	35
Ethylbenzene	0.100	0.1122		mg/Kg		112	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2388		mg/Kg		119	70 - 130	17	35
o-Xylene	0.100	0.1195		mg/Kg		119	70 - 130	17	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-22528-A-1-C MS

Matrix: Solid

Analysis Batch: 42409									Prep	p Batch: 42	2357
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00199	U	0.101	0.09286		mg/Kg		92	70 - 130		
Toluene	<0.00199	U	0.101	0.08719		mg/Kg		86	70 - 130		

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Prep Type: Total/NA

13

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 42357

Eurofins	Carls

Client Sample ID: Matrix Spike
QC Sample Results

Client: Ensolum Project/Site: PLU 27 BD 161H

Ethylbenzene

Mathad: 2021B Valatila Organic Compounds (GC) (Continued)

Lab Sample ID: 880-22528-A Matrix: Solid	A-1-C MS							Client	Sample ID	: Matrix Type: To	
Analysis Batch: 42409										Batch:	
Analysis Daton. 42403	Sample	Sample	Spike	MS	MS				%Rec	Daten.	42007
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	< 0.00199	U	0.101	0.08338		mg/Kg		83	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1725		mg/Kg		86	70 - 130		
o-Xylene	<0.00199	U	0.101	0.08628		mg/Kg		85	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	97		70 - 130								
1,4-Difluorobenzene (Surr)	109		70 - 130								
- Lab Sample ID: 880-22528-4	A-1-D MSD					Cli	ent Sa	ample IC): Matrix Sp	oike Dur	olicate
Matrix: Solid								•		Type: To	
Analysis Batch: 42409										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	< 0.00199	U	0.0996	0.09619		mg/Kg		97	70 - 130	4	35

0.0996

0.08535

0.1807

0.09565

mg/Kg

mg/Kg

mg/Kg

86

91

95

70 - 130

70 - 130

70 - 130

2

5

10

35

35

35

m-Xylene & p-Xylene	<0.00398	U	0.199
o-Xylene	<0.00199	U	0.0996
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

<0.00199 U

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

Lab Sample ID: MB 880-41926/1- Matrix: Solid Analysis Batch: 41982	Α					Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/15/22 14:18	12/16/22 08:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/15/22 14:18	12/16/22 08:33	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/22 14:18	12/16/22 08:33	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			12/15/22 14:18	12/16/22 08:33	1
o-Terphenyl	115		70 - 130			12/15/22 14:18	12/16/22 08:33	1
_ Lab Sample ID: LCS 880-41926/2	-A				c	lient Sample I	D: Lab Control	Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 41982 Prep Batch: 41926 %Rec Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits D 1000 918.4 92 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 903.8 mg/Kg 90 70 - 130 C10-C28)

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5

Lab Sample ID: LCS 880-41926/2-A

QC Sample Results

Limits

70 - 130

70 - 130

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 41982

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

LCS LCS %Recovery Qualifier

98

111

	1
Job ID: 890-3637-1 SDG: Eddy County NM	2
	3
Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 41926	4
	5
	6
	7

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Lab Sample ID: LCSD 880-419	26/3-A					Clier	nt Sam	ple ID:	Lab Contro	I Sampl	e Dup
Matrix: Solid									Prep 1	Type: Tot	tal/NA
Analysis Batch: 41982									Prep	Batch:	41926
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	1055		mg/Kg		105	70 - 130	14	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	1147	*1	mg/Kg		115	70 - 130	24	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	128		70 - 130								
o-Terphenyl	134	S1+	70 _ 130								
-											
Lab Sample ID: 890-3615-A-1-	EMS							Client	Sample ID		-
Matrix: Solid									Prep 1	Type: Tot	tal/NA
Analysis Batch: 41982									Prep	Batch:	41926
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U F2	999	1283		mg/Kg		128	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U *1	999	1096		mg/Kg		110	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	109		70 - 130								
o-Terphenyl	98		70 - 130								
-											
Lab Sample ID: 890-3615-A-1-	FMSD					CI	ient Sa	ample ID): Matrix Sp		
Matrix: Solid										Type: To	
Analysis Batch: 41982										Batch:	
		Sample	Spike		MSD		_	~ -	%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	997	988.5	F2	mg/Kg		99	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	<50.0	U *1	997	942.5		mg/Kg		95	70 - 130	15	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								

QC Sample Results

Job ID: 890-3637-1 SDG: Eddy County NM

Client: Ensolum Project/Site: PLU 27 BD 161H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41923/1-A											Client S	Sample ID:	Method	Blank
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
		MB M	IB											
Analyte		esult Q			RL			nit	D	Pr	epared	Analy		Dil Fac
Chloride	<	<5.00 U			5.00		m	g/Kg				12/19/22	21:05	1
Lab Sample ID: LCS 880-41923/2-/	4								Clie	ent	Sample	D: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifie	r Unit		D	%Rec	Limits		
Chloride				250		235.6		mg/Kg			94	90 - 110		
Lab Sample ID: LCSD 880-41923/3	B-A							CI	ient S	am	ple ID:	Lab Contro	ol Sampl	le Dup
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added		Result	Qualifie	er Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		237.1		mg/Kg			95	90 - 110	1	20
Lab Sample ID: 890-3637-1 MS												Client Sa	mple ID:	: SS05
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
	Sample	Sample	e	Spike		MS	MS					%Rec		
Analyte	Result	Qualifie	er	Added		Result	Qualifie	r Unit		D	%Rec	Limits		
Chloride	6580			5020		11410		mg/Kg			96	90 - 110		
Lab Sample ID: 890-3637-1 MSD												Client Sa	mple ID:	: SS05
Matrix: Solid													Type: S	
Analysis Batch: 42049														
-	Sample	Sample	e	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifi	er	Added		Result	Qualifie	er Unit		D	%Rec	Limits	RPD	Limit

QC Association Summary

Client: Ensolum Project/Site: PLU 27 BD 161H

5

Job ID: 890-3637-1 SDG: Eddy County NM

GC VOA

Prep Batch: 42357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3637-1	SS05	Total/NA	Solid	5035	
890-3637-2	SS06	Total/NA	Solid	5035	
MB 880-42357/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42357/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42357/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22528-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-22528-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 42409

660-22526-A-1-D MSD	Matrix Spike Duplicate	Total/INA	5010	5035		
Analysis Batch: 42409						ð
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	9
890-3637-1	SS05	Total/NA	Solid	8021B	42357	
890-3637-2	SS06	Total/NA	Solid	8021B	42357	
MB 880-42357/5-A	Method Blank	Total/NA	Solid	8021B	42357	
LCS 880-42357/1-A	Lab Control Sample	Total/NA	Solid	8021B	42357	
LCSD 880-42357/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42357	
880-22528-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	42357	
880-22528-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42357	
Analysis Batch: 42520						13

Analysis Batch: 42520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3637-1	SS05	Total/NA	Solid	Total BTEX	
890-3637-2	SS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41926

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3637-1	SS05	Total/NA	Solid	8015NM Prep	
890-3637-2	SS06	Total/NA	Solid	8015NM Prep	
MB 880-41926/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41926/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41926/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3615-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3615-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41982

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3637-1	SS05	Total/NA	Solid	8015B NM	41926
890-3637-2	SS06	Total/NA	Solid	8015B NM	41926
MB 880-41926/1-A	Method Blank	Total/NA	Solid	8015B NM	41926
LCS 880-41926/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41926
LCSD 880-41926/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41926
890-3615-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	41926
890-3615-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41926

Analysis Batch: 42185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3637-1	SS05	Total/NA	Solid	8015 NM	
890-3637-2	SS06	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

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QC Association Summary

Client: Ensolum Project/Site: PLU 27 BD 161H

Job ID: 890-3637-1 SDG: Eddy County NM

HPLC/IC

Leach Batch: 41923

ach Batch: 41923					
.ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3637-1	SS05	Soluble	Solid	DI Leach	
390-3637-2	SS06	Soluble	Solid	DI Leach	
MB 880-41923/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-41923/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-3637-1 MS	SS05	Soluble	Solid	DI Leach	
390-3637-1 MS 390-3637-1 MSD nalysis Batch: 42049	SS05	Soluble	Solid	DI Leach	
390-3637-1 MS 390-3637-1 MSD nalysis Batch: 42049	SS05	Soluble	Solid	DI Leach	Dron Dotob
390-3637-1 MS 390-3637-1 MSD nalysis Batch: 42049 .ab Sample ID	SS05				_ Prep Batch 41923
390-3637-1 MS 390-3637-1 MSD	SS05 Client Sample ID	Soluble Prep Type	Solid Matrix	DI Leach	
390-3637-1 MS 390-3637-1 MSD nalysis Batch: 42049 _ab Sample ID 390-3637-1	SS05 Client Sample ID SS05	Soluble Prep Type Soluble	Solid <u>Matrix</u> Solid	DI Leach Method 300.0	41923
390-3637-1 MS 390-3637-1 MSD nalysis Batch: 42049 Lab Sample ID 390-3637-1 390-3637-2	SS05 Client Sample ID SS05 SS06	Soluble Prep Type Soluble Soluble	Solid Matrix Solid Solid	DI Leach Method 300.0 300.0	41923 41923
390-3637-1 MS 390-3637-1 MSD nalysis Batch: 42049 240 Sample ID 390-3637-1 390-3637-2 MB 880-41923/1-A	SS05 Client Sample ID SS05 SS06 Method Blank	Soluble Prep Type Soluble Soluble Soluble Soluble	Solid Matrix Solid Solid Solid	DI Leach Method 300.0 300.0 300.0	41923 41923 41923
390-3637-1 MS 390-3637-1 MSD nalysis Batch: 42049 200-3637-1 390-3637-1 390-3637-2 MB 880-41923/1-A _CS 880-41923/2-A	SS05 Client Sample ID SS05 SS06 Method Blank Lab Control Sample	Soluble Prep Type Soluble Soluble Soluble Soluble Soluble	Solid Matrix Solid Solid Solid Solid Solid Solid	DI Leach Method 300.0 300.0 300.0 300.0	41923 41923 41923 41923 41923

Analysis Batch: 42049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3637-1	SS05	Soluble	Solid	300.0	41923
890-3637-2	SS06	Soluble	Solid	300.0	41923 🖌
MB 880-41923/1-A	Method Blank	Soluble	Solid	300.0	41923
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	300.0	41923
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41923
890-3637-1 MS	SS05	Soluble	Solid	300.0	41923
890-3637-1 MSD	SS05	Soluble	Solid	300.0	41923

Eurofins Carlsbad

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Job ID: 890-3637-1 SDG: Eddy County NM

Lab Sample ID: 890-3637-1 Matrix: Solid

Lab Sample ID: 890-3637-2

Matrix: Solid

Date Collected: 12/07/22 12:45 Date Received: 12/13/22 13:30

Project/Site: PLU 27 BD 161H

Client Sample ID: SS05

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42357	12/20/22 21:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42409	12/21/22 19:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42520	12/22/22 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			42185	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41926	12/15/22 14:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 16:35	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	42049	12/19/22 21:18	СН	EET MID

Client Sample ID: SS06

Date Collected: 12/07/22 13:00 Date Received: 12/13/22 13:30

Date Received: 12/13/22 13:30

	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	42357	12/20/22 21:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42409	12/21/22 19:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42520	12/22/22 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			42185	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41926	12/15/22 14:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 16:57	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42049	12/19/22 21:32	СН	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Project/Site: PLU 27 BD 161H

Laboratory: Eurofins Midland

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

Ithority	P	Program	Identification Number	Expiration Date
xas	N	IELAP	T104704400-22-25	06-30-23
• ,		out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for w
the econor does not a	ffor partification			
the agency does not o		Matrix	Analyte	
the agency does not c Analysis Method 8015 NM	ffer certification . Prep Method	Matrix Solid	Analyte Total TPH	

Job ID: 890-3637-1

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SDG: Eddy County NM

Method Summary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3637-1 SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
3021B	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
3015NM Prep	Microextraction	SW846	EET MID
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Job ID: 890-3637-1 SDG: Eddy County NM

Client: Ensolum Project/Site: PLU 27 BD 161H

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
390-3637-1	SS05	Solid	12/07/22 12:45	12/13/22 13:30	0.5'	4
390-3637-2	SS06	Solid	12/07/22 13:00	12/13/22 13:30	0.5'	
						5
						8
						9
						12
						1:
						1

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	Xe	Xenco	Xenco		EL P	bs, NM	((815) E	585-3443)2-7660.	1. Lubbo Carleba	EL Paso. TX (915) 585-3443. Lubbock. TX (806) 794-1286 Hobbs, NM (575) 392-7550. Carlebad, NM (575) 986-3189			
											-	www.xenco.com Pa	Page 1_of 1_
Project Manager	Ben Belill				Bill to (# different)	n()	Garre	Garrett Green	-			Con	ients
	Ensolum. LLC			0	Company Name	6	XTO	XTO Energy, Inc	Inc.		Program: UST/PST	Program: UST/PST 🗌 PRP 🔤 Brownfields 🔲 RRC 🔲	s RRC Superfund
	3122 National parks Hwy	arks H	WY	R	Address		3104	3104 E. Green Street	n Stree	-	State of Project:		
te ZIP.	Carlsbad, NM 88220	8220		0	City, State ZIP		Carls	Carlsbad, NM 88220	1 88220		Reporting: Level II [Reporting Level II DLevel III PST/UST TRRP	TRRP Level IV
	9898540852			Email	Email: bbelill@ensolum.com	lum.co	ē				Deliverables: EDD	ADaPT	Other:
Project Name	PLU 27 BD 161H	BD 10	61H	Turn /	Turn Around					ANALYSIS REC	EQUEST		Preservative Codes
Project Number	03E1	03E1558089	99	Routine	🗆 Rush	Pres.						None NO	NO DI Water H ₂ O
Project Location:	EDDY COUNTY, NM	DUNT		Due Date:								Cool: Cool	
Sampler's Name	Chris	Chris Brown		TAT starts the	TAT starts the day received by	-						HCL HC	HC HNO3 HN
PO *				the lab, if recei	the lab, if received by 4:30pm	-						H ₂ SO ₄ H ₂	H2 NaOH Na
SAMPLE RECEIPT	Temp Blank	ank I	(Nes) No	Wet Ice:	Mes No	nete	.0)					H ₃ PO	H3PO4: HP
Samples Received Intact	Res	No	Thermometer ID	-	TINM-00	Iran	300					NaHS	NaHSO4: NABIS
Cooler Custody Seals	Yes No	NIA	Correction Factor		-0.J	Pa	PA:					Na ₂ S	Na25203 NaSO3
Sample Custody Seals		NIA	Temperature Reading	Reading	5.8	-	S (E			890-3637 Chain of Cus	ustody	Zn Ac	Zn Acetate+NaOH Zn
Total Containers:			Corrected Temperature	nperature	0.9	1	BDB	015	802			NaCh	NaUH+Ascorbic Acid: SAPC
Sample Identification	ification	Matrix	Date Sampled	Time Sampled	Depth Grab/ Comp	/ # of Cont	CHLOP	TPH (8	BTEX				Sample Comments
SS05		S	12/7/2022	1245 0	0.5' Grab/	1	×	×	×			Co	Cost Center: 1666961001
SS06		S	12/7/2022	1	0.5' Grab/	1	×	×	×				
													Incident Number:
					+	T							NAPP2217546910
Total 200.7 / 6010	10 200.8 / 6020:	20:		BRCRA 13PPM	RA 13PPM Texas 11 AI	1 AI SU		sh As Ba Be E		Cd Ca Cr Co Cu Fe Pb Mg Mn M	TI LI K	Se Ag SIO ₂ Na Sr TI Sn U V Zr Hn 1631/245.1/7470 /7471	TI Sn U V Zn 1 / 7470 / 7471
Notice: Signature of this document and relinquishment of sa ervice. Eurofins Xenco will be liable only for the cost of	ocument and relinquio will be liable only fo	shment	of samples consti st of samples and	tutes a valid purc shall not assume	shase order from any responsibil	client c ity for a	ompany 1y losses	to Eurofi or expendence	ns Xenci	Notice: Signature of this document and refinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 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 samples and shall not assume as the same termination expenses incurred by the client if such losses are due to circumstances beyond the control of samples and shall not assume as the same termination expenses incurred by the client if such losses are due to circumstances beyond the control of the client in the same termination of termination of termination of terminations.	It assigns standard terms e due to circumstances be will be enforced unless pro	and conditions ,ond the control viously negotiated.	
Relinquished by: (Signature) . Received by: (Signature)	(Signature)		Received	Received by: (Signature)	re)		Date	Date/Time		Relinquished by: (Signal	nature) Receiv	Received by: (Signature)	Date/Time
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3	0	-		9	1				4				

Chain of Custody

Received by OCD: 8/17/2023 1:05:35 PM

Custody Seals Intact. Custody Seal No	Relinquished by	Relinquished by	Relinquished by	Empty Kit Relinquished by	Deliverable Requested 1 II III, IV, Other (specify)	Possible Hazard Identification Unconfirmed	Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central. LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC environment Testing South Central, LLC environment Testing South Central Environment Testing South Central Environment Testing South Central Environment Testing South Central Envi							SS06 (890-3637-2)	SS05 (890-3637-1)		Sample Identification - Client ID (Lab ID)	vite:	Project Name: PLU 27 BD 161H	Email	Phone: 432-704-5440(Tel)	State Zip. TX, 79701	City Midland	1211 W Florida Ave,	Eurofins Environment Testing South Centr	Shipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St Carisbad NM 88220 Phone: 575-988-3199 Fax: 575-988-3199	Eurotins Carisbad
-	Date/Time	Date/Time·	Date/Time ⁻		Primary Deliverable Rank.		ment Testing South Centra d above for analysis/tests/ h Central, LLC attention im							12/7/22	12/7/22	Ň	Sample Date	SSOW#:	Project #: 89000093	WO#	PO #:		TAT Requested (days):	12/19/2022	7	Phone:	Sampler	0	
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Cooler	Received by	Receiv	Receive	Ы	Special Instructions/QC	Sample Disposal (A	creditati back to to date							×	×	alle all	8015MOD_NM/		I_S_Pro	вр (МО	D) Full	TPH			Accreditations Required (See note): NELAP - Texas	amer@	ssica	řd	
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	Company	Company	Company		NICITI	month)	hain-of-custody If ovided Any chan ing South Central										Special Instructions/Note-		Y Trizma Z other (specify)		T TSP Dodecahydrate	P Na2O4S Q Na2SO3	N None O AsNaO2	les M Hexane				Environment Testing	

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		-	_		/MSD			GCV			,					895 S.M		
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Sample Identification - Client ID (Lab ID)	Sample Date	Time	(C=Comp, G=grab) вт	Ē	Perf			Total								IOTA	Special Ins	Special Instructions/Note:
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SS05 (890-3637-1)	12/7/22	Mountain		Solid	×	××	×	×							C''' 78			
SS06 (890-3637-2)	12/7/22	13 00 Mountain		Solid	×	× ×	×	×							8 7.9%			
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										-			ļ		13 707	L. K. <u>teasta</u>		
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.	nt Testing South Centra bove for analysis/tests/ intral, LLC attention im	al, LLC places th /matrix being and mediately If all	ne ownership of alyzed the sam requested accr	method analy ples must be s editations are of	te & accreditati hipped back to surrent to date	ion comp the Euro return th	vliance u ofins En ne signe	vironme d Chair	nt Test	ntract la Ing Sou tody att	Iborato th Cen esting	nes. T tral LL to said	his sar C labo compl	nple ; ratory iance	or off	ent is notified to the second	 forwarded under cha Istructions will be pro Environment Testin 	ain-of-custody If the vided Any changes to g South Central, LLC.
Possible Hazard Identification Unconfirmed					Sample I	le Disposal (A fe Return To Client	al (A	fee m	ay be	asse	assessed if san Disposal By Lah	if san	lples			inea	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	month) Months
Deliverable Requested 1 II III IV, Other (specify)	Primary Deliverable Rank	able Rank 2			Special Instructions/QC	nstructi	ons/Q		Requirements	ents.		ſ						
Empty Kit Relinquished by		Date			Time:		\setminus	_			Meth	Method of Shipment:	hipmei	7				
reinquished by	Date/Time [.]		00	Company	Receive	Ved ex	E	À	\mathcal{C}				Date/Time	ime				Company
relinquished by	Date/Time [.]		0	Company	Raceves								Date/Time	ime				Company
Relinquished by	Date/Time:		0	Company	Receiv	Received by							Date/Time	ime,				Company
Custody Seals Intact: Custody Seal No ∆ Yes ∆ No					Cooler	Cooler Temperature(s) °	ature(s)	0	and Other Remarks:	Remark	<u>9</u>	Ļ						
																		Ver 06/08/2021

Eurofins Carlsbad 1089 N Canal St.

Chain 13

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3637 List Number: 1 Creator: Stutzman, Amanda

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

Job Number: 890-3637-1 SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

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Eurofins Carlsbad
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Job Number: 890-3637-1 SDG Number: Eddy County NM List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3637 List Number: 2 Creator: Teel, Brianna

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

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

Received by OCD: 8/17/2023 1:05:35 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/22/2022 12:58:24 PM

JOB DESCRIPTION

PLU 27 BD 161H SDG NUMBER Eddy County NM

JOB NUMBER

890-3638-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Received by OCD: 8/17/2023 1:05:35 PM

1

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 12/22/2022 12:58:24 PM

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

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

Laboratory Job ID: 890-3638-1 SDG: Eddy County NM

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 27 BD 161H

LOQ

MCL

MDA

MDC

MDL

ML

MPN

MQL

NC ND

NEG

POS

PQL

PRES

QC

RER

RPD

TEF

TEQ

TNTC

RL

Job ID: 890-3638-1 SDG: Eddy County NM

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	6
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		7
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	8
Glossary		Q
Abbreviation	These commonly used abbreviations may or may not be present in this report.	3
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	10
%R	Percent Recovery	
CFL	Contains Free Liquid	44
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	12
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	4.9
DL	Detection Limit (DoD/DOE)	13
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	14
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	

Limit of Quantitation (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

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

Minimum Detectable Activity (Radiochemistry)

4

5

Job ID: 890-3638-1 SDG: Eddy County NM

Job ID: 890-3638-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: PLU 27 BD 161H

Narrative

Job Narrative 890-3638-1

Receipt

The sample was received on 12/13/2022 1:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS07 (890-3638-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-22528-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-42002 and analytical batch 880-42108 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-42002 and analytical batch 880-42108 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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.

RL

0.00199

0.00199

Unit

mg/Kg

mg/Kg

D

Prepared

12/20/22 21:30

12/20/22 21:30

Job ID: 890-3638-1 SDG: Eddy County NM

Analyzed

12/21/22 19:58

12/21/22 19:58

Client Sample ID: SS07

Project/Site: PLU 27 BD 161H

Date Collected: 12/07/22 13:15 Date Received: 12/13/22 13:30

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

Result Qualifier

<0.00199 U

<0.00199 U

Sample Depth: 0.5'

Client: Ensolum

Analyte

Benzene

Toluene

Lab Sample ID: 890-3638-1

Matrix: Solid

Dil Fac

1

1

Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/20/22 21:30	12/21/22 19:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/20/22 21:30	12/21/22 19:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/20/22 21:30	12/21/22 19:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/20/22 21:30	12/21/22 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			12/20/22 21:30	12/21/22 19:58	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/20/22 21:30	12/21/22 19:58	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/22/22 13:15	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			12/19/22 15:23	1
_ Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Method: SW846 8015B NM - Dies Analyte		nics (DRO) Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	· · ·	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 12/16/22 09:37	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U U	RL 50.0	mg/Kg	<u> </u>	12/16/22 09:37	12/18/22 12:27	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	RL 50.0	mg/Kg	<u>D</u>	12/16/22 09:37 12/16/22 09:37 12/16/22 09:37	12/18/22 12:27 12/18/22 12:27 12/18/22 12:27	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U U	RL 50.0 50.0 50.0	mg/Kg	<u> </u>	12/16/22 09:37 12/16/22 09:37	12/18/22 12:27 12/18/22 12:27	1 1 1
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 U U	RL 50.0 50.0 50.0 Limits	mg/Kg	<u> </u>	12/16/22 09:37 12/16/22 09:37 12/16/22 09:37 12/16/22 09:37 Prepared	12/18/22 12:27 12/18/22 12:27 12/18/22 12:27 12/18/22 12:27 Analyzed	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0	Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 50.0 70.130 70.130 70.130	mg/Kg	<u> </u>	12/16/22 09:37 12/16/22 09:37 12/16/22 09:37 Prepared 12/16/22 09:37	12/18/22 12:27 12/18/22 12:27 12/18/22 12:27 12/18/22 12:27 Analyzed 12/18/22 12:27	1 1 1 <i>Dil Fac</i> 1
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 <50.0 <50.0 %Recovery 112 105 , Ion Chromato	Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 50.0 70.130 70.130 70.130	mg/Kg	<u>D</u>	12/16/22 09:37 12/16/22 09:37 12/16/22 09:37 Prepared 12/16/22 09:37	12/18/22 12:27 12/18/22 12:27 12/18/22 12:27 12/18/22 12:27 Analyzed 12/18/22 12:27	1 1 1 <i>Dil Fac</i> 1

Project/Site: PLU 27 BD 161H

Job ID: 890-3638-1 SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-22528-A-1-C MS	Matrix Spike	97	109		
880-22528-A-1-D MSD	Matrix Spike Duplicate	104	117		6
890-3638-1	SS07	120	102		
LCS 880-42357/1-A	Lab Control Sample	109	113		
LCSD 880-42357/2-A	Lab Control Sample Dup	123	117		
MB 880-42357/5-A	Method Blank	85	102		8
Surrogate Legend					C
BFB = 4-Bromofluorobe					

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid				Prep Type: Total/NA	
				Percent Surrogate Recovery (Acceptance Limits)	
		1C01	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-3638-1	SS07	112	105		
890-3638-1 MS	SS07	92	72		
890-3638-1 MSD	SS07	106	81		
LCS 880-42002/2-A	Lab Control Sample	82	91		
LCSD 880-42002/3-A	Lab Control Sample Dup	108	99		
MB 880-42002/1-A	Method Blank	139 S1+	131 S1+		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Eurofins Carlsbad

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Job ID: 890-3638-1 SDG: Eddy County NM

Prep Type: Total/NA

Client Sample ID: Method Blank

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42357/5-A

Project/Site: PLU 27 BD 161H

Matrix: Solid

Client: Ensolum

Analysis Batch: 42409 Prep Batch: 42357 MB MB Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 mg/Kg 12/20/22 21:30 12/21/22 17:53 1 Toluene <0.00200 U 0.00200 mg/Kg 12/20/22 21:30 12/21/22 17:53 1 Ethylbenzene <0.00200 U 0.00200 mg/Kg 12/20/22 21:30 12/21/22 17:53 1 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 12/20/22 21:30 12/21/22 17:53 1 o-Xylene <0.00200 U 0.00200 12/20/22 21:30 12/21/22 17:53 mg/Kg 1 Xylenes, Total <0.00400 U 0.00400 12/20/22 21:30 12/21/22 17:53 mg/Kg 1 MB MB Qualifier %Recovery Surrogate Limits Prepared Dil Fac Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 85 12/20/22 21:30 12/21/22 17:53 1 102 70 - 130 12/20/22 21:30 1,4-Difluorobenzene (Surr) 12/21/22 17:53 1

Lab Sample ID: LCS 880-42357/1-A Matrix: Solid

Analysis Batch: 42409

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09323		mg/Kg		93	70 - 130	
Toluene	0.100	0.09102		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09651		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130	
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-42357/2-A

Matrix: Solid

Analysis Batch: 42409							Prep	Batch:	42357
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09835		mg/Kg		98	70 - 130	5	35
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	11	35
Ethylbenzene	0.100	0.1122		mg/Kg		112	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2388		mg/Kg		119	70 - 130	17	35
o-Xylene	0.100	0.1195		mg/Kg		119	70 - 130	17	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-22528-A-1-C MS

Matrix: Solid

Analysis Batch: 42409									Prep	p Batch: 42	2357
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00199	U	0.101	0.09286		mg/Kg		92	70 - 130		
Toluene	<0.00199	U	0.101	0.08719		mg/Kg		86	70 - 130		

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 42357

		Eurot

QC Sample Results

Client: Ensolum Project/Site: PLU 27 BD 161H

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

Lab Sample ID: 880-22528-A	A-1-C MS							Client	Sample ID		
Matrix: Solid									Prep 1	Гуре: To	tal/N/
Analysis Batch: 42409									Prep	Batch:	42357
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00199	U	0.101	0.08338		mg/Kg		83	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1725		mg/Kg		86	70 - 130		
o-Xylene	<0.00199	U	0.101	0.08628		mg/Kg		85	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	97		70 - 130								
1,4-Difluorobenzene (Surr)	109		70 - 130								
Lab Sample ID: 880-22528-A	A-1-D MSD					Cli	ent Sa	ample IC): Matrix Sp	oike Dur	olicate
Matrix: Solid										Type: To	
Analysis Batch: 42409										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Benzene	< 0.00199	U	0.0996	0.09619		mg/Kg		97	70 - 130	4	3
Toluene	<0.00199	U	0.0996	0.08829		mg/Kg		89	70 - 130	1	3
Ethylbenzene	<0.00199	U	0.0996	0.08535		mg/Kg		86	70 - 130	2	3
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1807		mg/Kg		91	70 - 130	5	3
o-Xylene	<0.00199	U	0.0996	0.09565		mg/Kg		95	70 - 130	10	3
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	104		70 - 130								
1,4-Difluorobenzene (Surr)	117		70 - 130								
lethod: 8015B NM - Die	sel Range O	rganics (E	DRO) (GC)								
Lab Sample ID: MB 880-420	02/1-0							Client 9	ample ID:	Mothod	Blan
Matrix: Solid	02/1 - A							onent a		Nethou Type: To	
Analysis Batch: 42108									Prep		

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/16/22 09:37	12/18/22 09:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/16/22 09:37	12/18/22 09:55	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/16/22 09:37	12/18/22 09:55	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130			12/16/22 09:37	12/18/22 09:55	1

70 - 130

o-Terphenyl	131	S1+	
Lab Sample ID: LCS 880-42002/2-A Matrix: Solid			

Analysis Batch: 42108

Analysis Batch: 42108							Prep	Batch: 42002
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	843.1		mg/Kg		84	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	745.4		mg/Kg		75	70 - 130	
C10-C28)								

Eurofins Carlsbad

Prep Type: Total/NA

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Job ID: 890-3638-1 SDG: Eddy County NM

12/16/22 09:37

12/18/22 09:55

Client Sample ID: Lab Control Sample

Released to Imaging: 2/19/2024 3:33:11 PM

QC Sample Results

Client: Ensolum Project/Site: PLU 27 BD 161H

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

Lab Sample ID: LCS 880-420	02/2-A						Client	Sample	e ID: Lab Co		
Matrix: Solid										Type: Tot	
Analysis Batch: 42108									Prep	Batch:	4200
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	91		70 - 130								
Lab Sample ID: LCSD 880-42	2002/3-A					Clier	nt Sam	ple ID:	Lab Contro	ol Sample	e Du
Matrix: Solid								· · · ·		Type: Tot	
Analysis Batch: 42108										Batch:	
-			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics (GRO)-C6-C10			1000	871.7		mg/Kg		87	70 - 130	3	2
Diesel Range Organics (Over			1000	818.2		mg/Kg		82	70 - 130	9	2
C10-C28)											
	LCSD	1050									
Surrogate	%Recovery		Limits								
1-Chlorooctane		Quaimer	70 - 130								
p-Terphenyl	99		70 - 130 70 - 130								
Analysis Batch: 42108									Prep	Batch:	4200
-		Sample Qualifier	Spike Added		MS Qualifier	Unit	D	%Rec	%Rec Limits		
Analyte Gasoline Range Organics		Qualifier	•			<mark>Unit</mark> mg/Kg	D	%Rec 74	%Rec		
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U	Added	Result 774.5		mg/Kg	<u>D</u>	74	%Rec Limits 70 - 130		
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	Added	Result			D		%Rec Limits		
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		Qualifier U U MS	Added	Result 774.5		mg/Kg	<u>D</u>	74	%Rec Limits 70 - 130		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	Result <50.0 <50.0 %Recovery	Qualifier U	Added 999 999 Limits	Result 774.5		mg/Kg	D	74	%Rec Limits 70 - 130		
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U U MS	Added 999 999 <u>Limits</u> 70 - 130	Result 774.5		mg/Kg	<u> </u>	74	%Rec Limits 70 - 130		
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane	Result <50.0 <50.0 %Recovery	Qualifier U U MS	Added 999 999 Limits	Result 774.5		mg/Kg	<u>D</u>	74	%Rec Limits 70 - 130		
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl	Result <50.0	Qualifier U U MS	Added 999 999 <u>Limits</u> 70 - 130	Result 774.5		mg/Kg	<u>D</u>	74	%Rec Limits 70 - 130		SSO
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: 890-3638-1 M	Result <50.0	Qualifier U U MS	Added 999 999 <u>Limits</u> 70 - 130	Result 774.5		mg/Kg	<u>D</u>	74	%Rec Limits 70 - 130 70 - 130 Client Sar		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-3638-1 M Matrix: Solid Analysis Batch: 42108	Result <50.0	Qualifier U U MS	Added 999 999 <u>Limits</u> 70 - 130	Result 774.5		mg/Kg	<u>D</u>	74	%Rec Limits 70 - 130 70 - 130 70 - 130	mple ID:	tal/N
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: 890-3638-1 M Matrix: Solid	Result <50.0	Qualifier U U MS	Added 999 999 <u>Limits</u> 70 - 130	Result 774.5 908.6		mg/Kg	<u> </u>	74	%Rec Limits 70 - 130 70 - 130 70 - 130	mple ID: Type: Tot	tal/N 4200
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate C-Chlorooctane D-Terphenyl Lab Sample ID: 890-3638-1 M Matrix: Solid Analysis Batch: 42108	Result <50.0 <50.0 MS %Recovery 92 72 MSD Sample	Qualifier U MS Qualifier	Added 999 999 Limits 70 - 130 70 - 130	Result 774.5 908.6 MSD	Qualifier	mg/Kg	D	74	%Rec Limits 70 - 130 70 - 130 Client Sar Prep T Prep T	mple ID: Type: Tot	tal/N 420(RF
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate C-Chlorooctane D-Terphenyl Lab Sample ID: 890-3638-1 M Matrix: Solid Analysis Batch: 42108 Analyte Gasoline Range Organics	Result <50.0 <50.0 MS %Recovery 92 72 MSD Sample	Qualifier U MS Qualifier Sample Qualifier	Added 999 999 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 774.5 908.6 MSD	Qualifier	mg/Kg		91	%Rec Limits 70 - 130 70 - 130 Client Sar Prep T Prep %Rec	mple ID: Type: Tot Batch: 4	tal/N 420(RF Lin
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 890-3638-1 M Matrix: Solid Analysis Batch: 42108 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 <50.0 MS %Recovery 92 72 ASD Sample Result	Qualifier U MS Qualifier Qualifier U	Added 999 999 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 774.5 908.6 MSD Result	Qualifier	mg/Kg mg/Kg Unit		74 91 %Rec	%Rec Limits 70 - 130 70 - 130 70 - 130 Client Sar Prep 1 Prep 1 Prep %Rec Limits	mple ID: Type: Tot Batch: 4	tal/N 4200 RF Lin
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 890-3638-1 M Matrix: Solid Analysis Batch: 42108 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier U MS Qualifier Qualifier U	Added 999 999 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added 997	Result 774.5 908.6 MSD Result 885.1	Qualifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg		74 91 %Rec 86	%Rec Limits 70 - 130 70 - 130 70 - 130 Client Sar Prep T Prep T %Rec Limits 70 - 130	mple ID: Type: Tot Batch: RPD 13	tal/N 4200 RF Lin
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 890-3638-1 N Matrix: Solid Analysis Batch: 42108 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U MS Qualifier Qualifier U U MSD	Added 999 999 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added 997	Result 774.5 908.6 MSD Result 885.1	Qualifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg		74 91 %Rec 86	%Rec Limits 70 - 130 70 - 130 70 - 130 Client Sar Prep T Prep T %Rec Limits 70 - 130	mple ID: Type: Tot Batch: RPD 13	tal/N
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-3638-1 M Matrix: Solid	Result <50.0	Qualifier U MS Qualifier Qualifier U U	Added 999 999 <u>Limits</u> 70 - 130 70 - 130 70 - 130 997 997	Result 774.5 908.6 MSD Result 885.1	Qualifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg		74 91 %Rec 86	%Rec Limits 70 - 130 70 - 130 70 - 130 Client Sar Prep T Prep T %Rec Limits 70 - 130	mple ID: Type: Tot Batch: RPD 13	tal/N 4200 RP Lim

QC Sample Results

Job ID: 890-3638-1 SDG: Eddy County NM

Client: Ensolum Project/Site: PLU 27 BD 161H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41923/1-A Matrix: Solid												ample ID: Prep	Type: S	
Analysis Batch: 42049														
		MB N	MB											
Analyte	R	esult (Qualifier		RL		Un	it	D	P	repared	Analy	zed	Dil Fa
Chloride	<	<5.00 l	U		5.00		mg	/Kg				12/19/22	21:05	
Lab Sample ID: LCS 880-41923/2-A									Cli	ent	Sample	D: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	olubl
Analysis Batch: 42049														
				Spike		LCS	LCS					%Rec		
Analyte				Added			Qualifier	Unit		D	%Rec	Limits		
Chloride				250		235.6		mg/Kg			94	90 - 110		
Lab Sample ID: LCSD 880-41923/3-	A							CI	ient S	Sam	ple ID:	Lab Contro	ol Samp	le Du
Matrix: Solid												Prep	Type: S	olubl
Analysis Batch: 42049														
				Spike		LCSD	LCSD					%Rec		RPI
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		237.1		mg/Kg			95	90 - 110	1	20
Lab Sample ID: 890-3637-A-1-B MS											Client	Sample ID	D: Matrix	Spike
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
	Sample	Sampl	le	Spike		MS	MS					%Rec		
Analyte	Result	Qualif	ier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	6580			5020		11410		mg/Kg			96	90 - 110		
Lab Sample ID: 890-3637-A-1-C MS	D								Clien	t Sa	ample IC): Matrix S	pike Du	plicate
Matrix: Solid											•		Type: S	
Analysis Batch: 42049														
	Sample	Sampl	le	Spike		MSD	MSD					%Rec		RPI
Analyte	Result	Qualif	ïer	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi

Client Sample ID

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Client Sample ID

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Client Sample ID

SS07

Method Blank

Matrix Spike

SS07

Method Blank

Matrix Spike

SS07

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Client: Ensolum Project/Site: PLU 27 BD 161H

GC VOA

890-3638-1

Prep Batch: 42357 Lab Sample ID

MB 880-42357/5-A

LCS 880-42357/1-A

LCSD 880-42357/2-A

880-22528-A-1-C MS

880-22528-A-1-D MSD

Lab Sample ID

MB 880-42357/5-A

LCS 880-42357/1-A

LCSD 880-42357/2-A

880-22528-A-1-C MS

880-22528-A-1-D MSD

Analysis Batch: 42521

890-3638-1

Analysis Batch: 42409

Prep Batch

Prep Batch

42357

42357

Job ID: 890-3638-1 SDG: Eddy County NM

Method

5035

5035

5035

5035

5035

5035

Method

8021B

8021B

8021B

8021B

8021B

8021B

Method

Total BTEX

8

42357	
42357	
42357	
42357	
Prep Batch	13

GC Semi VOA

Lab Sample ID

890-3638-1

Prep Batch: 42002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3638-1	SS07	Total/NA	Solid	8015NM Prep	
MB 880-42002/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42002/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3638-1 MS	SS07	Total/NA	Solid	8015NM Prep	
890-3638-1 MSD	SS07	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3638-1	SS07	Total/NA	Solid	8015B NM	42002
MB 880-42002/1-A	Method Blank	Total/NA	Solid	8015B NM	42002
LCS 880-42002/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42002
LCSD 880-42002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42002
890-3638-1 MS	SS07	Total/NA	Solid	8015B NM	42002
890-3638-1 MSD	SS07	Total/NA	Solid	8015B NM	42002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3638-1	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3638-1	SS07	Soluble	Solid	DI Leach	
MB 880-41923/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum Project/Site: PLU 27 BD 161H

Job ID: 890-3638-1 SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 41923 (Continued)

					/ .
_ab Sample ID 390-3637-A-1-B MS	Client Sample ID Matrix Spike	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
90-3637-A-1-B MS	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
		Colubio	Cona	Di Louon	
alysis Batch: 42049					
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
90-3638-1	SS07	Soluble	Solid	300.0	41923
B 880-41923/1-A	Method Blank	Soluble	Solid	300.0	41923
CS 880-41923/2-A	Lab Control Sample	Soluble	Solid	300.0	41923
CSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41923
90-3637-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	41923
90-3637-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	41923

890-3638-1	SS07	Soluble	Solid	300.0	41923
MB 880-41923/1-A	Method Blank	Soluble	Solid	300.0	41923
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	300.0	41923
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41923
890-3637-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	41923
890-3637-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	41923

Eurofins Carlsbad

Page 99 of 310

Job ID: 890-3638-1 SDG: Eddy County NM

Lab Sample ID: 890-3638-1 Matrix: Solid

Project/Site: PLU 27 BD 161H Client Sample ID: SS07

Client: Ensolum

Date Collected: 12/07/22 13:15 Date Received: 12/13/22 13:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42357	12/20/22 21:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42409	12/21/22 19:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42521	12/22/22 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			42204	12/19/22 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42002	12/16/22 09:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42108	12/18/22 12:27	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	42049	12/19/22 21:36	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 2/19/2024 3:33:11 PM

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 27 BD 161H

Job ID: 890-3638-1 SDG: Eddy County NM

Laboratory: Eurofins Midland

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

uthority	F	rogram	Identification Number	Expiration Date
exas	N	IELAP	T104704400-22-25	06-30-23
The fall states an an all data	are included in this report k	ut the leheratory is not cortif	the state of the s	n include enclutes fo
the agency does not of	1 ,	out the laboratory is not certil	ied by the governing authority. This list ma	ay include analytes to
0,	1 ,	Matrix	Analyte	ay include analytes id

Method Summary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3638-1 SDG: Eddy County NM

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3638-1 SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3638-1	SS07	Solid	12/07/22 13:15	12/13/22 13:30	0.5'	4
						5
						8
						9
						12
						13

o reionio Asico. A minimum ciarg	Total 200.7/6010 200.8/6020: BRCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ N Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xence, its affiliates and subcontractors. It assigns standard terms and conditions for service. Eurofins Xence will be liable only for the sabelled to each project and subclass or appenses incurred by the client if such losses are due to clicrumstances beyond the control of service. Eurofins Xence, A minimum charge of \$55.00 will be abolled to each project and a charge of \$5 for service sample submitted to Eurofins Xence, but not analyzed. These terms will be enforced unless previously negotiated of Eurofine Xence A minimum charge of \$55.00 will be abolled to each project and a charge of \$5 for service.			SS07	Sample Identification	Total Containers		Cooler Custody Seals Yes		IPLE RECEIPT	PO *			67	Name	Phone 9898540852	City. State ZIP. Carlsbad		Company Name: Ensolum, LLC	Project Manager Ben Belili			🛟 eurofins
Relinquished by: (Signature) Re	200.8 / 6020: al(s) to be analy thand relinquishment liable only for the co liable only for the co			S	Matrix		No	NO NIA	(Yes) No	Temp Blank		Chris Brown	EDDY COUNTY. NM	03E1558089	PLU 27 BD 161H	852	Carlsbad, NM 88220	3122 National parks Hwy	LLC			Xenco	Enviror
Received	Zed 81 st of samples const st of samples and			12/7/2022	Date Sampled	Corrected Temperature	Temperature Reading	Correction Factor	0 1	Red No		3	Y. NM	99	61H			W				Contraction of the second	Environment Testing
Received by: (Signature)	BRCRA 13PPM TCLP / SPLF antitutes a valid purcha nund shall not assume an			1315	Time Sampled	mperature	Reading	ictor		Wet Ice:	the lab. if rec	TAT starts the	Due Date:	Routine	Turn	Email						01110	ing.
ure)	PM Texas 11 PLP 6010: 8R PLP 6010: 8R ne any responsibility ange of \$5 for each a			0.5' Grab/	Depth Grab/ Comp	5.4	2.5	-0.2	thm e	Res) No	the lab, if received by 4 30pm	TAT starts the day received by		Rush	Turn Around	bbelil@ensolum.com	City, State ZIP:	Address	Company Name	Bill to (if different)	Ho	EL	Н
121	1 AI Sb IRCRA S IRCRA S Illity for any lo			b/ 1	b/ #of p Cont	0		Pa	() Iram	leter		<]		Code		olum.com		3			558, NM (67	Paso, TX (9	Juston, TX (2
Date/Time	AS Ba Be Sb As Ba B pany to Eurofins pany to Eurofins bmitted to Eurofi			×	CHLOI TPH (8		-	PA:	300.	0)							Carlsbad, NM 88220	3104 E. Green Street	XTO Energy, Inc.	Garrett Green	5) 392-7550.	15) 585-3443.	CIIdIII OI CUSLOUY
1330	e B Cd - Be Cd C Be Cd C Na Xenco, Its Nass incurre			×	BTEX	802	1										88220	n Street	Inc.		Cartsbad, N	Lubbock.	Dallas, T
Relinquished by: (Signature)	RA 13PPM Texas 11 AISb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U tes a valid purchase order from client company to Eurofins Xanco, its affiliates and subcontractors. It assigns standard te all not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstance bet and a charge of \$5 for sets asample submitted to Eurofine Xenco, but not analyzed. These terms will be enforced unless					-	890-3638 Chain of								ANALYSIS RE						Hobbs, NM (575) 392-7550, Canabad, NM (575) 900-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (808) 794-1296	CIIdIII CI CUSICUY Houston, TX (281) 240-4200, Dallas, TX (214) 802-0300
ature)	b Mg Mn Mo o Ni Se Ag T s. It assigns standa are due to circumst are will be enforced u					-	f Custody								EQUEST	Deliverables: EDD	Reporting	State of Project:	Program: L				
Received b	Ni K Se A TI U and terms and co transes beyond to unless previous!															s: EDD	Level II Lev	oject:	JST/PST P	Wo	CMMM		Work
Received by: (Signature)	 /a sr Ti /245.1/	zz		Cost	Sa	NaOH+,	Zn Acet	Na ₂ S ₂ O	NaHSO.	H ₃ PO ₄ HP	H2S04 H2	HCL: HC	Cool Cool	None: NO	Pn		Reporting Level II Level III PST/UST U TRRP]	Program: UST/PST PRP Brownfields RRC	Work Order Comments	www.xenco.com Page		Work Order No.
Date/Time	Sn U V Zn 17470 17471	NAPP2217540910, NAPP2218236445	Incident Numbers:	Cost Center: 1666961001	Sample Comments	NaOH+Ascorbic Acid SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO4: NABIS	HP	H ₂ NaOH: Na	IC HNO3 HN	cool MeOH: Me	NO DI Water: H ₂ O	Preservative Codes	Other			RRC Superfund	nts	ye 1_of 1_		

Custody Seals Intact: Custody Seal No	Relinquished by	Relinquished by	Relinquished by:	Empty Kit Relinquished by	Deliverable Requested 1 II III IV Other (specify)	Possible Hazard Identification Unconfirmed	Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.								SS07 (890-3638-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name: OKU 27 BD 161H	Email	Phone: 432-704-5440(Tel)	State Zip [.] TX 79701	City Midland	Address 1211 W Florida Ave ,	Company Eurofins Environment Testing South Centr	Client Contact Shipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St. Carisbad NM 88220 Phone. 575-988-3199 Fax: 575-988-3199	Eurofins Carlsbad
	Date/Time	Date/Time [.]	Date/Time:		Primary Deliverable Rank		lent Testing South Centr above for analysis/tests Central, LLC attention irr								12/7/22	\mathbb{N}	Sample Date	SSOW#	Project # 89000093	WO #	PO #:		TAT Requested (days):	Due Date Requested 12/19/2022		Phone:	Sampler	0	1
				Date	able Rank 2		al LLC places t /matrix being an mediately If al								13 15 Mountain	\square	Sample Time						iys):	ă				Chain of Custody Record	
							he ownership o alyzed, the sar requested acc									5 30	Sample Type (C=comp, G=grab)											of Cust	
	Company	Company	Company				of method ana mples must be creditations an								Solid	on Code:	Matrix (w=water S=solid, O=wasteioli, BT=Tissue, A=Air)									E-Mail Jessio	Lab PM Kramer,	ody R	
				Time:	Spe	San	lyte & acc shipped t e current t									XX	Field Filtered Perform MS/M		and Company State	-	20472 Tor 10007777				Accreditations Required (See note): NELAP - Texas	E-Mail Jessica Kramer@et.eurofinsus	m ner, Jessica	ecol	
Cooler Temperature(s)	Received by	Ricover	J.	2	Special Instructions/QC Requirements	Sample Disposal (A	editation ack to the date in			 					× ×	and Benefer	8015MOD_NM/8 8015MOD_Calc		_S_Pre	ep (MC)D) Full	TPH			- Texa	ıer@e	sica	à	
empera	d by	ŧ	d by:		tructio	<mark>le Disposal (A f</mark> Return To Client	n compl ne Euro sturn th								×		300_ORGFM_2		EACH	Chiori	de				quired (S	euro			
ture(s)			\bigcirc		ons/Q	al (A Clien	iance u fins Env e signe								×		8021B/5035FP_	Calc (M	OD) B	TEX		un.		An	See no				
°C and Other Remarks:		ł	4		C Req	fee m	pon ou /ironme d Chair								×		Total_BTEX_G	SV						nalysis	te):	com			
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Remark		1	\mathbf{d}	>	ents.	asse Disp	ntract la ing Sou tody at												_,					Requested		State	Cam		
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	Date/Time	Date/Time	Date/Time	of Shipment:		ples	iis sam C labori complia			 		_															(s)		
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						fee may be assessed if samples are retained longer t Disposal By Lab Archive For	s forwar hstructic s Enviro										(0	Other:	K EDTA	I Ice J DI Water		E Natio		Preservation Codes	Job #: 890-36	_{Page:} Page 1 of 1	COC No: 890-1064 1	🔅 eurofins	
						ler th	ded un ins will inment										ipecia		Þ	ater	MeOH Amchlor Ascorbic Acid	- Nitric Acid NaHSO4	NaOH 7n Acetate	ration	38-1	of 1	64 1	rofii	
L						an 1 n	der chai be prov Testing									$\ $	al Inst		NI 2 -				o -	Codes				su	
	Company	Company	Company		ľ	than 1 month) Mon	in-of-cu ided A South								They are a state of a more		Special Instructions/Note:		Y Trizma Z - other (specify)	V MCAA	S-H2S	P Na204S Q - Na2SO3 R Na2S2O3	N None	s M - Hexane				Enviro	
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Page 105 of 310

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	Custody ∆ Ye	Relinquished	Relinquished	Empty Kit F Relinquished	Unconfirme Deliverable	Possible H	Note Since la laboratory doe accreditation				SS07 (890

Furofine Carlshad			Ì																			
1089 N Canal St. Carlsbad, NM 88220	0	Chain of Custody Record	f Cust	ody Re) CO	rd							107	8. M.					<i>.</i>	🛟 eurofins		Environment Testing
Client Information (Sub Contract Lab)	Sampler			Lab PM. Kramer		Jessica							Carrier Tracking No(s)	. Trac		(s)				COC No: 890-1064 1		
	Phone:			E-Mail Jessic	E-Mail Jessica Kramer@et.eurofinsus co	mer@	Qet.ei	Infor	ISUS (com		- (0)	State of Origin New Mexico	Mexi	8 =					Page: Page 1 of 1		
Company Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	ations	Requir	ed (S	e not	e);										Job # [.] 890-3638-1		
Address 1211 W Flonda Ave,	Due Date Requested 12/19/2022	٩							Anal	alvsis		Requested	D n	2						Preservation Codes	: es	
City Midland	TAT Requested (days):	ys):			<u> </u>					_										A HCL B-NaOH	o z ₃	None AsNaO2
State, Zip: TX, 79701				**************************************		трн													1. Ha	D - Nitric Acid E NaHSO4	مەم	P - Na2O4S Q - Na2SO3 R Na2S203
Phone: 432-704-5440(Tel)	PO#				<u>n</u> • • •	D) Fuli		ie											ilin da	F MeOH G Amchlor H - Ascorbic Acid	႕ လု :	- H2SO4 TSP Dodecahydrate
Email	WO#				101/57/108.00M	p (MO		Chloric	EX										Griefel	J DI Water	< د	U - Acetone V MCAA
Project Name: OKU 27 BD 161H	Project #: 89000093				0000020070000	_S_Pre		EACH	OD) B										tainer	K EDTA L EDA	N≺≸	Y Trizma Z other (specify)
Site:	SSOW#:					015NM		D/DI_L		:V									of con	Other:		
		-	Sample Type	Matrix (^{W=water} S=solid,	l Filtered orm MS/N	NOD_NM/8	MOD_Calc	ORGFM_28	3/6036FP_	_BTEX_GO									Number			
Sample Identification - Client ID (Lab ID)	Sample Date	<u></u>	99		Sectore and	801	801	300	<u></u>	Tot			4	20	lictrica.				Tot	Special In	ıstrı	Special Instructions/Note:
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Weter Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC attention immediately.	t Testing South Centr ove for analysis/tests ntral LLC attention im	al LLC places t matrix being an mediately If al	he ownership o alyzed the sar requested acc	f method analy nples must be s reditations are	te & aco hipped current	credita back to to date	o the E retur	n the :	nce up s Env signed	ironm I Chai	ir sub ent Te n of C	contra Isting	Ict lab South y atte	orato Cent sting	nes. Tral Lu to saio	_C lat	ample porato	e ship iny or ie to l	other Eurofi	is forwarded under instructions will be p ins Environment Tes	chain- rovide ling S	of-custody If the ed. Any changes to outh Central LLC
Possible Hazard Identification Unconfirmed					Sar	 	le Disposal (A f i Return To Client	osal To ((Af	'ee n	lay L	∐ĕ ⊃ag	assessed if san Disposal By Lah	sed	if sa v / a	nple	is ar	∐e re	tain	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	1 mc	onth) Months
Deliverable Requested 1 II, III IV Other (specify)	Primary Deliverable Rank	able Rank 2			Spe	Special Instructions/QC	nstru	Iction	s/Q		Requirements	men	ۍ.									
Empty Kit Relinquished by		Date			Time:	Þ							Ľ	Method of Shipment:	od of (Shipm	ent					
Relinquished by	Date/Time ⁻			Company		Repa		5	5		P	K				Date/	Date/Time:				3 2	Company
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1				Company		Recei	Received by	, `								Date,	Date/Time:				2	Company
Custody Seals Intact: Custody Seal No ∆ Yes ∆ No						Coole	Cooler Temperature(s) °C	peratu	re(s)		and Other Remarks:	er Ren	narks									

5

11 12 13

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3638 List Number: 1 Creator: Stutzman, Amanda

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

Job Number: 890-3638-1 SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

Eurofins Carlsbad
Released to Imaging: 2/19/2024 3:33:11 PM

Job Number: 890-3638-1 SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3638 List Number: 2 Creator: Teel, Brianna

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").
Received by OCD: 8/17/2023 1:05:35 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/22/2022 12:59:19 PM

JOB DESCRIPTION

PLU 27 BD 161H SDG NUMBER Eddy County NM

JOB NUMBER

890-3639-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information



Received by OCD: 8/17/2023 1:05:35 PM

1

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 12/22/2022 12:59:19 PM

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

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

Laboratory Job ID: 890-3639-1 SDG: Eddy County NM

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Chain of Custody	18
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2

Definitions/Glossary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3639-1 SDG: Eddy County NM

•		
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
	Indicates the analyte was analyzed for but not detected.	8
Glossary		9
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Presumptive

Quality Control

PQL

PRES QC

RER

RPD TEF

TEQ

TNTC

RL

4

5

Job ID: 890-3639-1 SDG: Eddy County NM

Job ID: 890-3639-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: PLU 27 BD 161H

Narrative

Job Narrative 890-3639-1

Receipt

The sample was received on 12/13/2022 1:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS08 (890-3639-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-22528-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-42002 and analytical batch 880-42108 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-42002 and analytical batch 880-42108 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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.

RL

0.00200

0.00200

0.00200

0.00400

0.00200

0.00400

Limits

70 - 130

70 - 130

RL

RL

0.00400

Job ID: 890-3639-1 SDG: Eddy County NM

Analyzed

12/21/22 20:18

12/21/22 20:18

12/21/22 20:18

12/21/22 20:18

12/21/22 20:18

12/21/22 20:18

Analyzed

12/21/22 20:18

12/21/22 20:18

Analyzed

12/22/22 13:15

Analyzed

Client Sample ID: SS08

Project/Site: PLU 27 BD 161H

Date Collected: 12/07/22 13:30 Date Received: 12/13/22 13:30

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

Result Qualifier

Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

100

106

<0.00400 U

Result Qualifier

Result Qualifier

%Recovery

Sample Depth: 0.5'

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: Ensolum

Prepared

12/20/22 21:30

12/20/22 21:30

12/20/22 21:30

12/20/22 21:30

12/20/22 21:30

12/20/22 21:30

Prepared

12/20/22 21:30

12/20/22 21:30

Prepared

Prepared

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D

D

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

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mg/Kg

Unit

Unit

mg/Kg

890-3639-1 Matrix: Solid 4 5 od Dil Fac

1

1

1

1

1

1

Dil Fac

Dil Fac

Dil Fac

Total TPH	<49.9	U	49.9	mg/Kg			12/19/22 15:23	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		12/16/22 09:37	12/18/22 13:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/16/22 09:37	12/18/22 13:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/16/22 09:37	12/18/22 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			12/16/22 09:37	12/18/22 13:32	1
o-Terphenyl	96		70 - 130			12/16/22 09:37	12/18/22 13:32	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	987		25.3	mg/Kg			12/19/22 21:41	5

Project/Site: PLU 27 BD 161H

Job ID: 890-3639-1 SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-22528-A-1-C MS	Matrix Spike	97	109		
880-22528-A-1-D MSD	Matrix Spike Duplicate	104	117		6
890-3639-1	SS08	100	106		
LCS 880-42357/1-A	Lab Control Sample	109	113		
LCSD 880-42357/2-A	Lab Control Sample Dup	123	117		
MB 880-42357/5-A	Method Blank	85	102		8
Surrogate Legend					
BFB = 4-Bromofluorober	nzene (Surr)				9

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) Lab Sample ID **Client Sample ID** (70-130) 890-3638-A-1-D MS Matrix Spike 92 72 890-3638-A-1-E MSD Matrix Spike Duplicate 106 81 890-3639-1 SS08 100 96 LCS 880-42002/2-A Lab Control Sample 82 91 LCSD 880-42002/3-A Lab Control Sample Dup 108 99 MB 880-42002/1-A Method Blank 139 S1+ 131 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

G: Eddy County NM

Prep Type: Total/NA

Job ID: 890-3639-1 SDG: Eddy County NM

Prep Type: Total/NA

Client Sample ID: Method Blank

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42357/5-A

Project/Site: PLU 27 BD 161H

Matrix: Solid Analysis Batch: 42409

Client: Ensolum

Analysis Batch: 42409							Prep Batch	n: 42357
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			12/20/22 21:30	12/21/22 17:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/20/22 21:30	12/21/22 17:53	1

Lab Sample ID: LCS 880-42357/1-A Matrix: Solid

Analysis Batch: 42409

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09323		mg/Kg		93	70 - 130	
Toluene	0.100	0.09102		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09651		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130	
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-42357/2-A

Matrix: Solid

Analysis Batch: 42409							Prep	Batch:	42357
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09835		mg/Kg		98	70 - 130	5	35
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	11	35
Ethylbenzene	0.100	0.1122		mg/Kg		112	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2388		mg/Kg		119	70 - 130	17	35
o-Xylene	0.100	0.1195		mg/Kg		119	70 - 130	17	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-22528-A-1-C MS

Matrix: Solid

Analysis Batch: 42409									Pre	Batch: 42357
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.09286		mg/Kg		92	70 - 130	
Toluene	<0.00199	U	0.101	0.08719		mg/Kg		86	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 42357

Prep Type: Total/NA

10	- 100			
	_	- C	O L -	

Client Sample ID: Matrix Spike

Project/Site: PLU 27 BD 161H

Client: Ensolum

Job ID: 890-3639-1 SDG: Eddy County NM

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

ab Sample ID: 880-22528-A-1-	-C MS									Client S	Sample ID		
Aatrix: Solid												Гуре: То	
Analysis Batch: 42409												Batch:	4235
	Sample			Spike	MS						%Rec		
nalyte	Result		fier	Added		Qualifier	Unit		D	%Rec	Limits		
thylbenzene	<0.00199	U		0.101	0.08338		mg/Kg			83	70 - 130		
n-Xylene & p-Xylene	<0.00398			0.202	0.1725		mg/Kg			86	70 - 130		
-Xylene	<0.00199	U		0.101	0.08628		mg/Kg			85	70 - 130		
	MS	мs											
urrogate	%Recovery	Quali	ifier	Limits									
-Bromofluorobenzene (Surr)	97			70 - 130									
,4-Difluorobenzene (Surr)	109			70 - 130									
.ab Sample ID: 880-22528-A-1-									at Sa		Matrix S	niko Du	nlica
Ab Sample ID. 000-22520-A-1-								Cilei	11 36	imple iD.		ріке Du Гуре: То	-
nalysis Batch: 42409	Comple	• • • • •	- 1-	Califo	MOD	MSD					%Rec	Batch:	
	Sample S			Spike	MSD				_	~ -			RI
nalyte	Result		tier	Added		Qualifier	Unit		<u>D</u>	%Rec	Limits	RPD	Lir
enzene	<0.00199			0.0996	0.09619		mg/Kg			97	70 - 130	4	
oluene	<0.00199			0.0996	0.08829		mg/Kg			89	70 - 130	1	
thylbenzene	<0.00199			0.0996	0.08535		mg/Kg			86	70 - 130	2	
-Xylene & p-Xylene	<0.00398			0.199	0.1807		mg/Kg			91	70 - 130	5	
Xylene	<0.00199	U		0.0996	0.09565		mg/Kg			95	70 - 130	10	
	MSD	MSD											
urrogate		MSD Quali	ifier	Limits									
			ifier	Limits 70 - 130									
-Bromofluorobenzene (Surr)	%Recovery		ifier										
urrogate -Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel	%Recovery 104 117	Quali		70 - 130 70 - 130									
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel	%Recovery 104 117 Range Org	Quali		70 - 130 70 - 130						Client Sa	ample ID:	Method	Bla
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel .ab Sample ID: MB 880-42002/	%Recovery 104 117 Range Org	Quali		70 - 130 70 - 130						Client Sa	ample ID:		
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel .ab Sample ID: MB 880-42002/ Matrix: Solid	%Recovery 104 117 Range Org	Quali		70 - 130 70 - 130						Client Sa	Prep 1	Type: To	otal/N
-Bromofluorobenzene (Surr) .4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel .ab Sample ID: MB 880-42002/ Matrix: Solid	%Recovery 104 117 I Range Org 1-A	gan	ics (DR	70 - 130 70 - 130						Client Sa	Prep 1		otal/N
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel ab Sample ID: MB 880-42002/ Matrix: Solid analysis Batch: 42108	%Recovery 104 117 I Range Org	gan MB	ics (DR	70 - 130 70 - 130 20) (GC)		linit					Prep T Prep	Type: To Batch:	otal/N : 420
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) 2thod: 8015B NM - Diesel ab Sample ID: MB 880-42002/ latrix: Solid analysis Batch: 42108	%Recovery 104 117 I Range Org 1-A	gan MB sult	<mark>ICS (DR</mark> MB Qualifier	70 - 130 70 - 130 2O) (GC)		Unit		<u>D</u>	Pi	repared	Prep 1 Prep Analyz	Type: To Batch: ^{zed}	otal/N : 420
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel ab Sample ID: MB 880-42002/ latrix: Solid malysis Batch: 42108 nalyte asoline Range Organics	%Recovery 104 117 I Range Org 1-A	gan MB	<mark>ICS (DR</mark> MB Qualifier	70 - 130 70 - 130 20) (GC)		Unit mg/K	9	<u>D</u>	Pi		Prep T Prep	Type: To Batch: ^{zed}	otal/N : 420
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel .ab Sample ID: MB 880-42002/ Matrix: Solid Analysis Batch: 42108 .malyte Gasoline Range Organics GRO)-C6-C10 liesel Range Organics (Over	%Recovery 104 104 117 I Range Org 117 1-A Res <5	gan MB sult	ics (DR MB Qualifier U	70 - 130 70 - 130 2O) (GC)			-	<u>D</u>	Pi 12/10	repared	Prep 1 Prep Analyz	Type: To Batch: Zed 09:55	otal/N : 420
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel ab Sample ID: MB 880-42002/ fatrix: Solid malysis Batch: 42108 malyte asoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28)	%Recovery 104 117 I Range Org 1-A Res <5	Quali gan MB sult 50.0	MB Qualifier U	70 - 130 70 - 130 20) (GC) 		mg/K	g	<u>D</u> .	Pi 12/10	repared 6/22 09:37 6/22 09:37	Prep 7 Prep 4nalyz 12/18/22 12/18/22	Type: To Batch: 2ed 09:55 09:55	otal/N : 420
Bromofluorobenzene (Surr) .4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel .ab Sample ID: MB 880-42002/ Matrix: Solid .malysis Batch: 42108 .malyte Basoline Range Organics GRO)-C6-C10	%Recovery 104 104 117 I Range Org 117 I Range Org 117 I Range Org 117 I Res 5 <5	Quali gan MB sult 50.0	MB Qualifier U U	70 - 130 70 - 130 20) (GC) 		mg/K	g	<u>D</u>	Pi 12/10	repared 6/22 09:37	Prep Prep Analyz 12/18/22	Type: To Batch: 2ed 09:55 09:55	otal/N
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel ab Sample ID: MB 880-42002/ latrix: Solid malysis Batch: 42108 malyte asoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28) II Range Organics (Over C28-C36)	%Recovery 104 104 117 I Range Org I Res 1-A Res <5	Quali gan sult 50.0 50.0 50.0 <i>MB</i>	ics (DR MB Qualifier U U U MB	70 - 130 70 - 130 (GC) (GC) 50.0 50.0 50.0		mg/K	g	<u>D</u> .	Pi 12/10 12/10	repared 6/22 09:37 6/22 09:37 6/22 09:37	Prep 7 Prep Analyz 12/18/22 12/18/22 12/18/22	Type: To Datch: 2ed 09:55 09:55 09:55	btal/N 4200 Dil F
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel ab Sample ID: MB 880-42002/ latrix: Solid malysis Batch: 42108 malyte asoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28) II Range Organics (Over C28-C36) urrogate	%Recovery 104 104 117 I Range Org I Range Org 1-A Res <5	Quali gan MB sult 50.0 50.0 50.0 50.0 MB rery	ics (DR MB Qualifier U U U MB Qualifier	70 - 130 70 - 130 CO) (GC) RL 50.0 50.0 50.0 Limits		mg/K	g	<u>D</u>	Pr 12/10 12/10 12/10 Pr	repared 6/22 09:37 6/22 09:37 6/22 09:37 repared	Prep 7 Prep 12/18/22 12/18/22 12/18/22 12/18/22 Analyz	Type: To D Batch: 2ed 09:55 09:55 09:55 200:55 200:55	otal/N 420 Dil F
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel ab Sample ID: MB 880-42002/ latrix: Solid analysis Batch: 42108 nalyte asoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28) Il Range Organics (Over C28-C36) urrogate <i>Chlorooctane</i>	%Recovery 104 104 117 I Range Org I Res 1-A Res <5	Quali gan sult 50.0 50.0 50.0 <i>MB</i>	ICS (DR MB Qualifier U U U MB Qualifier S1+	70 - 130 70 - 130 (GC) (GC) 50.0 50.0 50.0		mg/K	g	<u>D</u> .	Pi 12/10 12/10 12/10 Pi 12/10	repared 6/22 09:37 6/22 09:37 6/22 09:37	Prep 7 Prep <u>Analyz</u> 12/18/22 12/18/22 12/18/22	Type: To D Batch: 2ed 09:55 09:55 09:55 2ed 09:55 09:55	otal/N : 420
A-Difluorobenzene (Surr) 4-Difluorobenzene (Surr) A-Difluorobenzene (Surr) A-Difluorobenzene (Surr) Athod: 8015B NM - Diesel ab Sample ID: MB 880-42002/ latrix: Solid nalysis Batch: 42108 nalyte asoline Range Organics SRO)-C6-C10 esel Range Organics (Over 10-C28) Il Range Organics (Over C28-C36) Urrogate Chlorooctane Terphenyl	%Recovery 104 104 117 I Range Org I Res 1-A Res <5	Quali gan MB sult 50.0 50.0 50.0 MB rery 139	ICS (DR MB Qualifier U U U MB Qualifier S1+	70 - 130 70 - 130 20) (GC) 20) (GC) 50.0 50.0 50.0 50.0 50.0 50.0		mg/K	g		Pr 12/10 12/10 12/10 Pr 12/10 12/10	repared 5/22 09:37 5/22 09:37 5/22 09:37 5/22 09:37 6/22 09:37 6/22 09:37	Prep 7 Prep 7 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22	Type: To D Batch: 2ed 09:55 09:55 09:55 09:55 09:55 09:55	Dil F
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel ab Sample ID: MB 880-42002/ latrix: Solid nalysis Batch: 42108 nalyte asoline Range Organics SRO)-C6-C10 iesel Range Organics (Over 10-C28) II Range Organics (Over C28-C36) urrogate -Chlorooctane -Terphenyl ab Sample ID: LCS 880-42002	%Recovery 104 104 117 I Range Org I Res 1-A Res <5	Quali gan MB sult 50.0 50.0 50.0 MB rery 139	ICS (DR MB Qualifier U U U MB Qualifier S1+	70 - 130 70 - 130 20) (GC) 20) (GC) 50.0 50.0 50.0 50.0 50.0 50.0		mg/K	g		Pr 12/10 12/10 12/10 Pr 12/10 12/10	repared 5/22 09:37 5/22 09:37 5/22 09:37 5/22 09:37 6/22 09:37 6/22 09:37	Prep 7 Prep 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22	Type: To D Batch: 2ed 09:55 09:55 09:55 09:55 09:55 09:55 09:55 09:55	Dill F
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel ab Sample ID: MB 880-42002/ latrix: Solid analysis Batch: 42108 nalyte asoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28) II Range Organics (Over C28-C36) urrogate -Chlorooctane -Terphenyl ab Sample ID: LCS 880-42002 latrix: Solid	%Recovery 104 104 117 I Range Org I Res 1-A Res <5	Quali gan MB sult 50.0 50.0 50.0 MB rery 139	ICS (DR MB Qualifier U U U MB Qualifier S1+	70 - 130 70 - 130 20) (GC) 20) (GC) 50.0 50.0 50.0 50.0 50.0 50.0		mg/K	g		Pr 12/10 12/10 12/10 Pr 12/10 12/10	repared 5/22 09:37 5/22 09:37 5/22 09:37 5/22 09:37 6/22 09:37 6/22 09:37	Prep 7 Prep 7 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22	Type: Top Datch: 200 09:55 - 09:55 - 09:55 - 09:55 - 09:55 - 09:55 - 09:55 - 09:55 - 09:55 - 09:55 - 09:55 - 09:55 - 09:55 - 09:55 -	Dill F Dill F Dill F
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel ab Sample ID: MB 880-42002/ latrix: Solid analysis Batch: 42108 nalyte asoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28)	%Recovery 104 104 117 I Range Org I Res 1-A Res <5	Quali gan MB sult 50.0 50.0 50.0 MB rery 139	ICS (DR MB Qualifier U U U MB Qualifier S1+	70 - 130 70 - 130 20) (GC) 20) (GC) 50.0 50.0 50.0 50.0 50.0 50.0		mg/K	g		Pr 12/10 12/10 12/10 Pr 12/10 12/10	repared 5/22 09:37 5/22 09:37 5/22 09:37 5/22 09:37 6/22 09:37 6/22 09:37	Prep 7 Prep 7 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22 12/18/22	Type: To D Batch: 2ed 09:55 09:55 09:55 09:55 09:55 09:55 09:55 09:55	Dill F Dill F Dill F

Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	843.1		mg/Kg		84	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	745.4		mg/Kg		75	70 - 130	
C10-C28)								

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Lab Sample ID: LCS 880-42002/2-A

Lab Sample ID: LCSD 880-42002/3-A

QC Sample Results

Client: Ensolum Project/Site: PLU 27 BD 161H

Matrix: Solid

Matrix: Solid

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

Page 118 of 3 .	10
Job ID: 890-3639-1	
SDG: Eddy County NM	

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 42002

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

		ł
ent Sample ID:	Matrix Spike	

SIIL	Jamp		J. Mat		pike
	P	ren	Type:	Total	/NA

Prep	Batch: 42002

Analysis Batch: 42108			
	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 _ 130
o-Terphenyl	91		70 - 130

Matrix. Soliu									Frep i	ype. to	lai/INA
Analysis Batch: 42108									Prep	Batch:	42002
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	871.7		mg/Kg		87	70 - 130	3	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	818.2		mg/Kg		82	70 - 130	9	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	99		70 _ 130								
Lab Sample ID: 890-3638-A-1	-D MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep 1	Type: To	tal/NA
Analysis Batch: 42108										Batch:	
-	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	999	774.5		mg/Kg		74	70 - 130		
Diesel Range Organics (Over	<50.0	U	999	908.6		mg/Kg		91	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery		Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	72		70 - 130								
Lab Sample ID: 890-3638-A-1	-E MSD					CI	ient Sa	ample IC): Matrix Sp	oike Dup	licate
Matrix: Solid									Prep 1	Type: To	tal/NA
Analysis Batch: 42108									Prep	Batch:	4 <mark>20</mark> 02
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	885.1		mg/Kg		86	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1027		mg/Kg		103	70 - 130	12	20
	MSD	MSD									
Surrogate	%Recoverv	Qualifier	l imits								

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	81		70 - 130

QC Sample Results

Job ID: 890-3639-1 SDG: Eddy County NM

Client: Ensolum Project/Site: PLU 27 BD 161H

Method: 300.0 - Anions, Ion Chromatography

								Clier	nt Sample	ID: Metho	d Blank
Matrix: Solid									P	rep Type:	Soluble
Analysis Batch: 42049											
		MB MB									
Analyte	Re	sult Qualifie	er	RL	Uni	t	D	Prepare	d A	nalyzed	Dil Fac
Chloride	<	5.00 U		5.00	mg/	/Kg			12/1	9/22 21:05	1
Lab Sample ID: LCS 880-41923/2-A							Clie	ent Sam	ple ID: La	b Control	Sample
Matrix: Solid									P	rep Type:	Soluble
Analysis Batch: 42049											
			Spike	LCS	S LCS				%Rec	:	
Analyte			Added	Resu	t Qualifier	Unit		D %Re	c Limits	s	
Chloride			250	235.	6	mg/Kg		g	90 - 1 ⁻	10	
 Lab Sample ID: LCSD 880-41923/3-/	A					CI	ient S	ample I	D: Lab Co	ntrol Sam	ple Dup
Matrix: Solid									P	rep Type:	Soluble
Analysis Batch: 42049											
			Spike	LCSI	LCSD				%Rec	:	RPD
Analyte			Added	Resu	t Qualifier	Unit		D %Re	c Limits	s RPD	Limit
Chloride			250	237.	1	mg/Kg		g	90 - 1	10 1	20
Lab Sample ID: 890-3643-A-4-B MS								Clie	ent Sampl	e ID: Matri	x Spike
Matrix: Solid									P	rep Type:	Soluble
Analysis Batch: 42049											
	Sample	Sample	Spike	M	S MS				%Rec	;	
Analyte	Result	Qualifier	Added	Resu	t Qualifier	Unit		D %Re	c Limits	6	
Chloride	497		1240	162)	mg/Kg		ç	90 - 1	10	
- Lab Sample ID: 890-3643-A-4-C MS	D						Client	Sample	e ID: Matri	x Spike Dı	uplicate
Matrix: Solid								•		rep Type:	
Analysis Batch: 42049											
-	Sample	Sample	Spike	MSI	MSD				%Rec	:	RPD
Analyte	Result	Qualifier	Added	Resu	t Qualifier	Unit		D %Re	c Limits	s RPD	Limit
Chloride	497		1240	162		mg/Kg		g	90 - 1	10 0	20

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Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Client Sample ID

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Client Sample ID

SS08

Method Blank

Matrix Spike

SS08

QC Association Summary

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Client: Ensolum Project/Site: PLU 27 BD 161H

Prep Batch: 42357

Lab Sample ID

MB 880-42357/5-A

LCS 880-42357/1-A

LCSD 880-42357/2-A

880-22528-A-1-C MS

880-22528-A-1-D MSD

Lab Sample ID

MB 880-42357/5-A

LCS 880-42357/1-A

LCSD 880-42357/2-A

880-22528-A-1-C MS

880-22528-A-1-D MSD

Analysis Batch: 42522

890-3639-1

Analysis Batch: 42409

890-3639-1

IH			SDG: I	Eddy County NM
Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
SS08	Total/NA	Solid	5035	

Prep Type	Matrix
Total/NA	Solid
Prep Type	Matrix
Total/NA	Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Job ID: 890-3639-1 SDG Eddy County NM

5035

5035

5035

5035

5035

Method

8021B

8021B

8021B

8021B

8021B

8021B

Method

Total BTEX

Prep Batch

42357

42357

42357

42357

42357

42357

Prep Batch

GC Semi VOA Prep Batch: 42002

Lab Sample ID

890-3639-1

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3639-1	SS08	Total/NA	Solid	8015NM Prep	
MB 880-42002/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42002/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3638-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3638-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3639-1	SS08	Total/NA	Solid	8015B NM	42002
MB 880-42002/1-A	Method Blank	Total/NA	Solid	8015B NM	42002
LCS 880-42002/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42002
LCSD 880-42002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42002
890-3638-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	42002
890-3638-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	42002

890-3639-1 **SS08** Total/NA Solid 8015 NM

HPLC/IC

Leach Batch: 41923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3639-1	SS08	Soluble	Solid	DI Leach	
MB 880-41923/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Job ID: 890-3639-1 SDG: Eddy County NM

HPLC/IC (Continued)

LCS 880-41923/2-A

LCSD 880-41923/3-A

890-3643-A-4-B MS

890-3643-A-4-C MSD

Leach Batch: 41923 (Continued)

Lab Control Sample

Matrix Spike

Lab Control Sample Dup

Matrix Spike Duplicate

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3643-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3643-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Lab Sample ID 890-3639-1		Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 41923

Soluble

Soluble

Soluble

Soluble

Eurofins Carlsbad

Page 121 of 310

5 6

8

41923

41923

41923

41923

Solid

Solid

Solid

Solid

300.0

300.0

300.0

300.0

Job ID: 890-3639-1 SDG: Eddy County NM

Lab Sample ID: 890-3639-1 Matrix: Solid

Client Sample ID: SS08 Date Collected: 12/07/22 13:30 Date Received: 12/13/22 13:30

Project/Site: PLU 27 BD 161H

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	42357	12/20/22 21:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42409	12/21/22 20:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42522	12/22/22 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			42205	12/19/22 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42002	12/16/22 09:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42108	12/18/22 13:32	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42049	12/19/22 21:41	СН	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 Summar	ſY
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Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3639-1 SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	P	rogram	Identification Number	Expiration Date
lexas 🛛	N	IELAP	T104704400-22-25	06-30-23
The following enclytee	are included in this report h	ut the laboratory is not cortif	ied by the governing authority. This list ma	ov includo onclutos f
the agency does not of	1 /		led by the governing authority. This list the	ay include analytes it
0,	1 /	Matrix	Analyte	ay include analytes it

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: PLU 27 BD 161H

Job ID: 890-3639-1 SDG: Eddy County NM

Nethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
lotal BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
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
01 Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3639-1 SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3639-1	SS08	Solid	12/07/22 13:30	12/13/22 13:30	0.5'	4
						5
						8
						9
						12
						13

	Xenco	Xenco		EL Pas Hobbs	, NM (675) 3	92-7550, Carl	MRUBING, I A (902) (1443440, Sain Antonino, I A (2.19) 0000004 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbe, NM (575) 392-7550, Carlsbad, NM (575) 988-3199		Page 1
								www.xenco.com	b.com Page 1 of 1
Project Manager B	Ben Belill			Bill to (if different)	Garre	Garrett Green		Work O	Work Order Comments
	Ensolum, LLC			Company Name:	хто	XTO Energy, Inc.		Program: UST/PST 🗌 PRP 🗍 Brownfields 🗌 RRC	Brownfields RRC Superfund
	3122 National parks Hwy	rks Hwy		Address	3104	3104 E. Green Street	set	State of Project:	
e ZIP	Carlsbad, NM 88220	220		City. State ZIP	Carls	Carlsbad, NM 88220	20	Reporting: Level II CLevel III PST/UST TRRP	PST/UST TRRP Level IV
	9898540852		Email.		n.com			Deliverables EDD	ADaPT Other:
Project Name	PLU 27	PLU 27 BD 161H	Turn	Turn Around			ANALYSIS RE	EQUEST	Preservative Codes
Project Number	03E16	03E1558089	Routine	-	Pres. Code				None: NO DI Water: H ₂ O
Project Location:	EDDY CO	EDDY COUNTY, NM	Due Date:						Cool: Cool MeOH: Me
Sampler's Name	Chris	Chris Brown	TAT starts th	TAT starts the day received by					
PO#			the lab, if rec	the lab, if received by 4:30pm	rs				H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	T Temp Blank	nk Tel No	Vet Ice	Gen No	nete .0)	_			H ₃ PO ₄ . HP
Samples Received Intact		lo Thermometer ID	neter ID	HANN -004					NaHSO ₄ : NABIS
Cooler Custody Seals	Yes No	N/A Correction Factor	in Factor	1.0.2					Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals	Yes Nd	NIA Tempera	Temperature Reading	2,5	S (E	-	890-3639 Chai	in of Custody	Zn Acetate+NaOH Zn
Total Containers		Corrected	Corrected Temperature	2.0	aDi				Naon tasculuic acid. Sar o
Sample Identification		Matrix Date Sampled	ed Sampled	Depth Grab/ Comp	Cont CHLOF	TPH (8) BTEX (Sample Comments
SOSS	S	3 12/7/2022	022/250	0.5' Grab/	1 ×	×			Cost Center: 1666961001
									Incident Numbers: NAPP2217540910.
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	0 200.8 / 6020: d Metal(s) to be an	20: analyzed	8RCRA 13P TCLP/S	RA 13PPM Texas 11 AI 3 TCLP / SPLP 6010: 8RCRA		Ba Be B As Ba Be	b As Ba Be B Cd Ca Cr Co Cu Fe Pb Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	Mg Mn Mo Ni K Se A Ni Se Ag TI U	g SiO ₂ Na Sr TI Sn U V Zn Hg: 1631/245.1/7470/7471
Notice: Signature of this da of service. Eurofins Xenco of Eurofins Xenco. A minim	ourment and relinquis will be itable only for num charge of \$85.00	hment of samples the cost of sample will be applied to a	constitutes a valid puse and shall not assu- ach project and a ch	urchase order from cl me any responsibility arge of \$5 for each sa	lent company for any losse imple submitt	to Eurofins Xe s or expenses ed to Eurofins	co, its affiliates and subcontractors icurred by the client if such losses : enco, but not analyzed. These term	Notice: Signature of this document and relinquiahment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated	ne rol Hated.
Relinguished by: (Signature)	(Signature)	Rece	Received by: (Signature)	ture)	Date	Date/Time	Refinguished by: (Signa	nature) Received by: (Signature)	ignature) Date/Time
n.		Anna	la St	at	12/13/22	1221	50		
3	1			0	4		*		

Chain of Custody Houston. TX (281) 240-4200. Dalles. TX (214) 902-0300

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Custody Seals Intact: Custody Seal No	Relinquished by	Relinquished by	Relinquished by UU	Empty Kit Relinguished by	Deliverable Requested 1 II, III IV Other (specify)	Possible Hazard Identification Unconfirmed	Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC								SS08 (890-3639-1)		Sample Identification - Client ID (Lab ID)	Site:	Project Name PLU 27 BD 161H	Email	Phone. 432-704-5440(Tel)	Slate Zip: TX, 79701	City Midland	Address. 1211 W Florida Ave	Company Eurofins Environment Testing South Centr	Client Contact: Shipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St. Carlsbad, NM 88220 Phone 575-988-3199 Fax: 575-988-3199	Eurofins Carlsbad
	Date/Time [.]	Date/Time:	Date/Time:		Primary Deliverable Rank. 2		ent Testing South Cent above for analysis/test Central, LLC attention ir								12/7/22	$\overline{\mathbb{N}}$	Sample Date	SSOW#:	Project # 89000093	WO#	PO#:		TAT Requested (days)	Due Date Requested 12/19/2022		Phone	Sampler		Ì
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							the ownership halyzed the sa Il requested ac										Sample Type (C=comp, G=grab)											of Cust	
	Company	Company	Company				of method ana mples must be creditations ar								Solid	Preservation Code:	Matrix (w=water S=solid, O=waste/oil, BT=Tissue, A=Air)									E-Mail Jessi	Lab PM Krame	tody R	
			T	Time [.]	Spec	Sam	lyte & accr shipped b e current to									STREE .	Field Filtered Sa Perform MS/MS	D (Y	es or	No)	zjilki				Accreditations Required (See note) NELAP - Texas	E-Mail Jessica Kramer@et.eurofinsu	Lab PM Kramer Jessica	ecor	
Cooler Temperature(Received by:	Breivag	eteived	P	Special Instructions/QC Requirements	Sample Disposal (A fee	editation ack to th date re	$\left - \right $							< <		8015MOD_NM/801 8015MOD_Calc	6NM	_S_Pr	ep (MC	D) Ful				ons Rec - Texa:	er@et	ica	đ	
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						than	f under will be p ent Tes								1000 TO 1000					-	Acid	4 id	ate	ion Coi	<u>ب</u>	-	-	fins	
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Eurofins Carlsbad 1089 N Canal St. Carisbad NM 88220 Phone. 575-988-3199 Client Information (Sub Contract Lab) Client Contact: Company Eurofins Environment Testing South Centr Address. 1211 W Flonda Ave, City Midland State Zip: TX, 79701 Phone: 432-704-5440(Tel) Email Project Name: PLU 27 BD 161H Site	Ch Sampler Phone Due Date Requested 12/19/2022 TAT Requested (tays) PO #: POjeci #: SSOW#:		of Cus	angle (Yes or No) SD (Yes or No) SD (Yes or No) HISNM_S_Prep (MOD) Full TPH	Accreditations Required (See NELAP - Texas NELAP - Texas NELAP - Texas NELAP - Texas NELAP - Texas NELAP - Texas	M15NM_S_Prep (MOD) Full TPH 5.Ca				ö ,	Requested	Carrier Tracking No(s) State of Origin New Mexico			(ŝ)			f containers	COC No B90-1064 1 Page 1 Page 1 Page 1 B90-3639-1 B A-HCL B A-HCL B A-HCL B NaOH C-Zn Acetate B NaOH C-Zn Acetate C-Zn Ace
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, 0=waste/oil, BT=Tissue, A=Ali	-		8015MOD_Calc	8021B/5035FP_Cal	Total_BTEX_GCV									Total Number of	and the second of the second second
	X	\$N	Preserva	Preservation Code:	X	i i	and the second	G. auger	-	1				the second				1	۴¥
SS08 (890-3639-1)	127/122	13 30 Mountain		Solid		×	×	×	×					L					<u>ka hatika 183</u>
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Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC elaboratory accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.	Iment Testing South Centra dabove for analysis/tests/ h Central, LLC attention im	I, LLC places natrix being a mediately If a	the ownership nalyzed the s	of method, and amples must taken to creditations a	allyte & acc	creditatic back to t	the Eur	pliance ofins E	upon nviron	ain of C	contra	/ attes	Centron Centron	al L	his s	ampl	be to gran	Pomer Pomer	ofins in the second sec
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5

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3639 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	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Job Number: 890-3639-1 SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

Eurofins Carlsbad Released to Imaging: 2/19/2024 3:33:11 PM

Job Number: 890-3639-1 SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3639 List Number: 2 Creator: Teel, Brianna

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

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/22/2022 12:59:25 PM

JOB DESCRIPTION

PLU 27 BD 161H SDG NUMBER Eddy County NM

JOB NUMBER

890-3640-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

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Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 12/22/2022 12:59:25 PM

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

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

Laboratory Job ID: 890-3640-1 SDG: Eddy County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
-	21

2

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 27 BD 161H

Job ID: 890-3640-1 SDG: Eddy County NM

FT0ject/Site. FL		
Qualifiers		3
GC VOA Qualifier	Qualifier Description	
<u>U</u>	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC Qualifier	Qualifier Description	
	Indicates the analyte was analyzed for but not detected.	8
Glossary		9
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	1
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC ND	Not Calculated	
ND NEG	Not Detected at the reporting limit (or MDL or EDL if shown)	
POS	Negative / Absent Positive / Present	
POS	Positive / Present Practical Quantitation Limit	
PQL	Practical Quantuation Limit	

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

PRES

QC

RER

RL RPD

TEF

TEQ

TNTC

4

5

Job ID: 890-3640-1 SDG: Eddy County NM

Job ID: 890-3640-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: PLU 27 BD 161H

Narrative

Job Narrative 890-3640-1

Receipt

The sample was received on 12/13/2022 1:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS09 (890-3640-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-22528-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-42002 and analytical batch 880-42108 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-42002 and analytical batch 880-42108 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

Job ID: 890-3640-1 SDG: Eddy County NM

Client Sample ID: SS09

Project/Site: PLU 27 BD 161H

Date Collected: 12/07/22 13:45 Date Received: 12/13/22 13:30

Sample Depth: 0.5'

Client: Ensolum

Lab Sample ID: 890-3640-1

Matrix: Solid

Method: SW846 8021B - Volatile	•							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/20/22 21:30	12/21/22 20:39	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/20/22 21:30	12/21/22 20:39	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/20/22 21:30	12/21/22 20:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/20/22 21:30	12/21/22 20:39	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/20/22 21:30	12/21/22 20:39	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/20/22 21:30	12/21/22 20:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			12/20/22 21:30	12/21/22 20:39	1
1,4-Difluorobenzene (Surr)	90		70 - 130			12/20/22 21:30	12/21/22 20:39	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Calo	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/22/22 13:15	1
_ Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/19/22 15:23	1
_ Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/16/22 09:37	12/18/22 13:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/16/22 09:37	12/18/22 13:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/16/22 09:37	12/18/22 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			12/16/22 09:37	12/18/22 13:55	1
o-Terphenyl	102		70 - 130			12/16/22 09:37	12/18/22 13:55	1
_ Method: MCAWW 300.0 - Anions	s, Ion Chromato	graphy - So	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
						· · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	

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Project/Site: PLU 27 BD 161H

Job ID: 890-3640-1 SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		ī
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-22528-A-1-C MS	Matrix Spike	97	109		
880-22528-A-1-D MSD	Matrix Spike Duplicate	104	117		
890-3640-1	SS09	81	90		
LCS 880-42357/1-A	Lab Control Sample	109	113		
LCSD 880-42357/2-A	Lab Control Sample Dup	123	117		
MB 880-42357/5-A	Method Blank	85	102		
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				
DFBZ = 1,4-Difluoroben:	zene (Surr)				

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

Matrix: Solid

-				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3638-A-1-D MS	Matrix Spike	92	72	
890-3638-A-1-E MSD	Matrix Spike Duplicate	106	81	
890-3640-1	SS09	113	102	
LCS 880-42002/2-A	Lab Control Sample	82	91	
LCSD 880-42002/3-A	Lab Control Sample Dup	108	99	
MB 880-42002/1-A	Method Blank	139 S1+	131 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Prep Type: Total/NA

Job ID: 890-3640-1 SDG: Eddy County NM

Prep Type: Total/NA

Client Sample ID: Method Blank

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample	ID:	MB	880-42357/5-A

Project/Site: PLU 27 BD 161H

Matrix: Solid Analysis Batch: 42409

Client: Ensolum

						Prep Batch	n: 42357
MB	МВ						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
<0.00400	U	0.00400	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
<0.00400	U	0.00400	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
МВ	МВ						
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
85		70 - 130			12/20/22 21:30	12/21/22 17:53	1
102		70 - 130			12/20/22 21:30	12/21/22 17:53	1
	Result <0.00200	Result Qualifier <0.00200	Result Qualifier RL <0.00200	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	Result Qualifier RL Unit D Prepared <0.00200	MB MB Result Qualifier RL Unit D Prepared Analyzed <0.00200

Lab Sample ID: LCS 880-42357/1-A Matrix: Solid

Analysis Batch: 42409

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09323		mg/Kg		93	70 - 130	
Toluene	0.100	0.09102		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09651		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130	
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-42357/2-A

Matrix: Solid

Analysis Batch: 42409							Prep	Batch:	42357
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09835		mg/Kg		98	70 - 130	5	35
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	11	35
Ethylbenzene	0.100	0.1122		mg/Kg		112	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2388		mg/Kg		119	70 - 130	17	35
o-Xylene	0.100	0.1195		mg/Kg		119	70 - 130	17	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-22528-A-1-C MS

Matrix: Solid

Analysis Batch: 42409									Prep	o Batch: 4235	7
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00199	U	0.101	0.09286		mg/Kg		92	70 - 130		
Toluene	<0.00199	U	0.101	0.08719		mg/Kg		86	70 - 130		

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

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

Client Sample ID: Lab Control Sample Dup

Prep Batch: 42357

Prep Type: Total/NA

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3640-1 SDG: Eddy County NM

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

Lab Sample ID: 880-22528-A-1	-C MS									Client S	Sample ID:		-
Matrix: Solid											Prep Ty	-	
Analysis Batch: 42409											Prep l	Batch:	4235
	Sample	Samp	ble	Spike	MS	MS					%Rec		
Analyte	Result		fier	Added	Result	Qualifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00199	U		0.101	0.08338		mg/Kg			83	70 - 130		
m-Xylene & p-Xylene	<0.00398	U		0.202	0.1725		mg/Kg			86	70 - 130		
o-Xylene	<0.00199	U		0.101	0.08628		mg/Kg			85	70 - 130		
	MS												
Surrogate		Qual	ifier	Limits									
4-Bromofluorobenzene (Surr)	97			70 - 130									
1,4-Difluorobenzene (Surr)	109			70 - 130									
Lab Sample ID: 880-22528-A-1	-D MSD							Clien	t Sa	mple ID:	Matrix Spi	ke Du	plicat
Matrix: Solid											Prep Ty	-	
Analysis Batch: 42409											Prep l	Batch:	4235
	Sample	Samp	ole	Spike	MSD	MSD					%Rec		RP
Analyte	Result	Quali	fier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Benzene	<0.00199	U		0.0996	0.09619		mg/Kg			97	70 - 130	4	3
Toluene	<0.00199	U		0.0996	0.08829		mg/Kg			89	70 - 130	1	3
Ethylbenzene	<0.00199	U		0.0996	0.08535		mg/Kg			86	70 - 130	2	3
m-Xylene & p-Xylene	<0.00398	U		0.199	0.1807		mg/Kg			91	70 - 130	5	3
o-Xylene	<0.00199	U		0.0996	0.09565		mg/Kg			95	70 - 130	10	3
	MSD												
Surrogate		Qual	ifier	Limits									
4-Bromofluorobenzene (Surr)	104			70 - 130									
1,4-Difluorobenzene (Surr)	117			70 - 130									
ethod: 8015B NM - Diese Lab Sample ID: MB 880-42002 Matrix: Solid Analysis Batch: 42108		<u> </u>		,,,,,						Client Sa	mple ID: N Prep Ty Prep I		otal/N
		МВ	MB										
Analyte	Re	sult	Qualifier		RL	Unit		D	Pi	repared	Analyze	d	Dil Fa
Gasoline Range Organics GRO)-C6-C10	<	50.0	U	5	0.0	mg/K	g	_	12/1	6/22 09:37	12/18/22 0	9:55	
Diesel Range Organics (Over C10-C28)	<	50.0	U	5	0.0	mg/K	g		12/10	6/22 09:37	12/18/22 0	9:55	
Oll Range Organics (Over C28-C36)	<	50.0	U	5	0.0	mg/K	g		12/10	6/22 09:37	12/18/22 0	9:55	
		ΜВ	МВ										
Surrogate	%Reco	-	Qualifier	Limits				_		repared	Analyze		Dil Fa
1-Chlorooctane		139		70 - 13						6/22 09:37	12/18/22 0		
p-Terphenyl		131	S1+	70 - 13	0				12/1	6/22 09:37	12/18/22 0	9:55	
Lab Sample ID: LCS 880-42002	2/2-A							Cli	ient	Sample	ID: Lab Co		
Matrix: Solid											Prep Ty		otal/N
Analysis Batch: 42108													4200

Analysis Datch: 42100							Frepi	Dalch. 4200	2
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	843.1		mg/Kg		84	70 - 130		_
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	745.4		mg/Kg		75	70 - 130		
C10-C28)									

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Lab Sample ID: LCS 880-42002/2-A

QC Sample Results

Limits

70 - 130

70 - 130

Client: Ensolum Project/Site: PLU 27 BD 161H

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 42108

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

LCS LCS %Recovery Qualifier

82

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Page 140 of 3	10
Job ID: 890-3640-1	
JUD ID. 030-3040-1	

SDG: Eddy County NM

Prep Type: Total/NA

Prep Batch: 42002

Client Sample ID: Lab Control Sample

Dup	
/NA	
002	
RPD	
imit	
20	
20	

Client	Sample	ID:	Matrix	Spike
	Dura			4-1/NIA

ebi	ype.	TOLAI/NA	
Dron	Rate	h. 12002	

0-respirency	51		70 - 750								
Lab Sample ID: LCSD 880-4 Matrix: Solid	2002/3-A					Clier	nt Sam	nple ID:	Lab Contro		
										Type: To	
Analysis Batch: 42108			0	1.000	LCSD				%Rec	Batch:	
Analita			Spike Added			11	_	0/ Dee		RPD	RPD
Analyte				871.7	Qualifier	Unit	<u>D</u>	%Rec 87	Limits 70 - 130	3	
Gasoline Range Organics (GRO)-C6-C10			1000	0/1./		mg/Kg		07	70 - 130	3	20
Diesel Range Organics (Over			1000	818.2		mg/Kg		82	70 - 130	9	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	99		70 - 130								
Lab Sample ID: 890-3638-A-	-1-D MS							Client	Sample ID		
Matrix: Solid										Type: To	
Analysis Batch: 42108										Batch:	42002
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U	999	774.5		mg/Kg		74	70 - 130		
(GRO)-C6-C10	-50.0		000	000.0				04	70 400		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	908.6		mg/Kg		91	70 - 130		
010-020)											
	MS										
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	72		70 - 130								
Lab Sample ID: 890-3638-A						CI	iont S	amplo IF): Matrix S	oiko Dur	olicato
Matrix: Solid						01				Type: To	
Analysis Batch: 42108										Batch:	
Analysis Daton. 42100	Sample	Sample	Spike	MSD	MSD				%Rec	Baten.	RPD
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	997	885.1		mg/Kg		86	70 - 130	13	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	997	1027		mg/Kg		103	70 - 130	12	20
C10-C28)											
	MSD	MSD									

	W3D W3D	
Surrogate	%Recovery Qual	ifier Limits
1-Chlorooctane	106	70 - 130
o-Terphenyl	81	70 - 130

QC Sample Results

Job ID: 890-3640-1 SDG: Eddy County NM

Client: Ensolum Project/Site: PLU 27 BD 161H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41923/1-A											Client S	Sample ID:		
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
		MB I												
Analyte			Qualifier		RL		Un	-	D	P	repared	Analy		Dil Fac
Chloride	<	<5.00 l	U		5.00		mg	g/Kg				12/19/22	21:05	1
Lab Sample ID: LCS 880-41923/2-A	\								Cli	ient	Sample	BID: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
				Spike		LCS	LCS					%Rec		
Analyte				Added			Qualifier			D	%Rec	Limits		
Chloride				250		235.6		mg/Kg			94	90 - 110		
Lab Sample ID: LCSD 880-41923/3	-A							CI	ient S	Sam	ple ID:	Lab Contr	ol Samp	le Dur
Matrix: Solid											- -	Prep	Type: S	oluble
Analysis Batch: 42049														
				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added		Result	Qualifie	r Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		237.1		mg/Kg			95	90 - 110	1	20
Lab Sample ID: 890-3643-A-4-B MS	5										Client	Sample II	D: Matrix	Spike
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
	Sample	Samp	le	Spike		MS	MS					%Rec		
Analyte	Result	Qualif	fier	Added		Result	Qualifie	r Unit		D	%Rec	Limits		
Chloride	497			1240		1620		mg/Kg			91	90 - 110		
Lab Sample ID: 890-3643-A-4-C MS	SD								Clien	t Sa	ample IC): Matrix S	pike Du	olicate
Matrix: Solid	-												Type: S	
Analysis Batch: 42049														
-	Sample	Samp	le	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualif	fier	Added		Result	Qualifie	r Unit		D	%Rec	Limits	RPD	Limit

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Client Sample ID

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Client Sample ID

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Client Sample ID

SS09

Method Blank

Matrix Spike

SS09

Method Blank

Matrix Spike

SS09

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Client: Ensolum Project/Site: PLU 27 BD 161H

Prep Batch: 42357

Lab Sample ID

MB 880-42357/5-A

LCS 880-42357/1-A

LCSD 880-42357/2-A

880-22528-A-1-C MS

880-22528-A-1-D MSD

Lab Sample ID

MB 880-42357/5-A

LCS 880-42357/1-A

LCSD 880-42357/2-A

880-22528-A-1-C MS

880-22528-A-1-D MSD

Analysis Batch: 42523

890-3640-1

Analysis Batch: 42409

890-3640-1

Method

5035

5035

5035

5035

5035

5035

Method

8021B

8021B

8021B

8021B

8021B

8021B

Method

Total BTEX

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Job ID: 890-3640-1 SDG: Eddy County NM

Prep Batch

Prep Batch

42357

42357

42357

42357

42357

42357

Prep Batch

GC Semi VOA

Lab Sample ID

890-3640-1

Prep Batch: 42002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-3640-1 SS09		Total/NA	Solid	8015NM Prep		
MB 880-42002/1-A	Method Blank	Total/NA	Solid	8015NM Prep		
LCS 880-42002/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep		
LCSD 880-42002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep		
890-3638-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep		
890-3638-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep		

Analysis Batch: 42108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3640-1	SS09	Total/NA	Solid	8015B NM	42002
MB 880-42002/1-A	Method Blank	Total/NA	Solid	8015B NM	42002
LCS 880-42002/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42002
LCSD 880-42002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42002
890-3638-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	42002
890-3638-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	42002
Analysis Batch: 42206					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3640-1	SS09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41923

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method P	rep Batch
890-3640-1	SS09	Soluble	Solid	DI Leach	
MB 880-41923/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Client: Ensolum Project/Site: PLU 27 BD 161H

Job ID: 890-3640-1 SDG: Eddy County NM

HPLC/IC (Continued)

LCS 880-41923/2-A

LCSD 880-41923/3-A

890-3643-A-4-B MS

890-3643-A-4-C MSD

Leach Batch: 41923 (Continued)

Lab Control Sample

Matrix Spike

Lab Control Sample Dup

Matrix Spike Duplicate

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3643-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3643-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3640-1	SS09	Soluble	Solid	300.0	41923
MB 880-41923/1-A	Method Blank	Soluble	Solid	300.0	41923

Soluble

Soluble

Soluble

Soluble

Solid

Solid

Solid

Solid

300.0

300.0

300.0

300.0

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41923

41923

41923

Job ID: 890-3640-1 SDG: Eddy County NM

Lab Sample ID: 890-3640-1 Matrix: Solid

Client Sample ID: SS09 Date Collected: 12/07/22 13:45

Project/Site: PLU 27 BD 161H

Client: Ensolum

Date Received: 12/13/22 13:30

	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	42357	12/20/22 21:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42409	12/21/22 20:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42523	12/22/22 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			42206	12/19/22 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42002	12/16/22 09:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42108	12/18/22 13:55	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42049	12/20/22 14:06	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 2/19/2024 3:33:11 PM
	A	Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: PLU 27 Bl	D 161H			Job ID: 890-3640 SDG: Eddy County N	
Laboratory: Eurofi		ere covered under each acc	reditation/certification below.		3
Authority		ogram	Identification Number	Expiration Date	4
Texas		ELAP	T104704400-22-25	06-30-23	F
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 for which	5
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					11
					13

Eurofins Carlsbad

.

Method Summary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3640-1 SDG: Eddy County NM

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3640-1 SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3640-1	SS09	Solid	12/07/22 13:45	12/13/22 13:30	0.5'	4
						5
						8
						9
						12
						13

				Hobbs	NM (575) 392-7550.	Hobbe, NM (575) 392-7550, Carlsbad, NM (575) 988-3199		www.xenco.com Page
Project Manager B	Ben Belili			Bill to (If different)	Garrett Green	1	×	Work Order Comments
	Ensolum, LLC		0	Company Name:	XTO Energy, Inc	Inc.	Program: UST/PST	PRP Brownfields RRC
	3122 National parks Hwy	s Hwy		Address:	3104 E. Green Street	n Street	State of Project:]
te ZIP	Carlsbad, NM 88220	0	0	City. State ZIP	Carlsbad, NM 88220	188220	Reporting Level II Level III L PST/UST TRRP	
	9898540852		Email t	bbeiii@ensolum.com	n.com		Deliverables: EDD	ADaPT D Other:
Project Name:	PLU 27 BD 161H	0 161H	Turn /	Turn Around		ANALYSIS P	REQUEST	Preservative Codes
Project Number	03E1558089	6808	Routine		Pres. Code			None: NO
Project Location:	EDDY COUNTY, NM	VTY. NM	Due Date:					Cool: Cool
Sampler's Name	Chris Brown	UM0.	TAT starts the	TAT starts the day received by				HCL HC
PO *			the lab. If rece	the lab. If received by 4:30pm	ITS			H ₂ S04: H ₂
SAMPLE RECEIPT	T Temp-Blank	(Yes No	Wet Ice:	Ger No	nete .0)			H ₃ PO ₄ . HP
Samples Received Intact	-	Thermometer ID		Thin 807				NaHSO4 NABIS
Cooler Custody Seals	Yes No	MA Correction Factor		いう	_			Na2S2U3. NaSU3
Sample Custody Seals		A Temperature Reading	Reading	5.2		890-3640 Chain	of Custody	Zn Acetate+NaOH: Zn
t otal Containera	-	Conected Lemperature	inbelainie		DRID	(80)		
Sample Identification	fication Matrix	trix Sampled	Sampled	Depth Comp (Cont CHLC TPH	BTE		Sample Comments
SS09	S	12/7/2022	1245 0	0.5' Grab/	1 X X	×		Cost Center: 1666961001
								Incident Number
								NAPP2218236445
Total 200.7 / 6010	0 200.8 / 6020:		8RCRA 13PPM	Texas 11	Al Sb As Ba Be	B Cd Ca Cr Co Cu Fe	Pb Mg Mn Mo Ni K Se	Ag SiO ₂ Na Sr TI
Circle Method(s) and Metal(s) to be analyzed	d Metal(s) to be an		14		Sb As B	Cd Cr Co	Cu Pb Mn Mo Ni Se Ag TI U	Hg: 1631 / 245.1 / 7470
Notice: Signature of this do. of service, Eurofins Xenco v of Eurofins Xenco. A minim	ocument and relinquishm will be liable only for the num charge of \$85.00 wil	ent of samples consistent of samples consistent of samples and it is applied to each particular to be applied to b	litutes a valid pur I shall not assum project and a char	chase order from cli any responsibility ge of \$5 for each sa	ent company to Eurofi for any losses or expe mple submitted to Eur	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xanco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xanco will be lable only for the cost of samples and shall not assume any responsibility for any losses or expenses insurred by the client if such losses are due to circumstances beyond the control of Eurofins Xanco. A minimum charce of \$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xanco, but not analyzed. These terms will be enforced unless previously negotiated	re. It assigns standard terms and c s are due to circumstances beyond ms will be enforced unless previous	onditions the control ly negotiated.
Relinquished by: (Signature)	(Signature)	Receive	Received by: (Signature)	ire)	Date/Time	Relinquished by: (Sig	nature) Received	Received by: (Signature)
N	1	B. AN	X	A.A.	51313121	1330		

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Chain of Custody

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	-	13	3

Chain of Custody Record



🔅 eurofins Environment Testing

State, Zip: TX 79701 Project Name: PLU 27 BD 161H Vote: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC. SS09 (890-3640-1) Sample Identification - Client ID (Lab ID) Email Midland Eurofins Environment Testing South Centr 432-704-5440(Tel) Shipping/Receiving Possible Hazard Identification none 1211 W Florida Ave Empty Kit Relinquished by eliverable Requested I II III IV, Other (specify) Idress ent Contact: lient Information (Sub Contract Lab) linquished by rconfirmed S Project # 89000093 Phone Date/Time WO # P0 #: Due Date Requested 12/19/2022 Primary Deliverable Rank SSOW# TAT Requested (days): Sampler Sample Date 12/7/22 Date Mountain Sample Time 13 45 N (C=comp, G=grab) Туре Sample Preservation Code: BT≖Tissue, A≍Al Company 0=waste/oll (W=water S=solid, Matrix Solid Kramer Jessica Lab PM E-Mail: Jessica Kramer@et.eurofinsus.com Field Filtered Sample (Yes or No) **NELAP - Texas** I Ime ccreditations Required (See note) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH × × 8015MOD Calo × 300_ORGFM_28D/DI_LEACH Chloride 8021B/5035FP_Calc (MOD) BTEX × Analysis Requested × Total_BTEX_GCV State of Origin: New Mexico mer Tracking No(s). thod of Shipment: Date/Time: Total Number of containers J - DI Water K EDTA L EDA A HCL B - NaOH D - Nitric Acid D - Nitric Acid E NaHSO4 F - MeOH G Amchlor H - Ascorbic Acid COC No 890-1064 1 Preservation Codes 4 GOF Page 1 of 1 age. Jther 390-3640-1 Special Instructions/Note: M Hexane N Mone O - AsNaO2 P NaZO4S P NaZO503 R NaZSC03 R NaZSC03 S - H2SO4 T TSP Dodecahydrate U - Acetone V MCAA W pH 4-5 Y Trizma Ν Company other (specify) Months

elinquished by

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Date/Time

Company Company

Received by

Date/

Company Company

Date/Time Time

Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Date/Time

Custody Seals Intact: ∆ Yes ∆ No

Custody Seal No

Carlsbad, NM 88220 Phone. 575-988-3199 Fax: 575-988-3199

1089 N Canal St

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Relinquished by Date/Time: Relinquished by Date/Time:		(Date/Time:	linquished by	Denveraue Requested 1, 11 11 V Ontel (specify) Primary Denverable Rank. 2		laboratory does not currently maintain accreditation in the State of Origin listed above for analysis testmatrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC attention immediately.	toe laboratory accreditations are subject to change Furnfins Environment Testing South Central I				SS09 (890-3640-1) 12/7/22 M		Sample Identification - Client ID (Lab ID) Sample Date	SSOW#	Project Name: PLU 27 BD 161H 89000093	#OW	Phone: PO # 432-704-5440(Tel)	State, Zip: TX, 79701		Address Due Date Requested 12/19/2022	Company Eurofins Environment Testing South Centr	Client Contact: Phone: Shipping/Receiving	ormation (Sub Contract Lab)	575-988-3199	Eurofins Carlshad
	Company	Company	Company	Date	e Kank. Z		trix being analyzed the samples diately if all requested accredit	I C planas the outporchip of mai				13 45 S	Preserva	Sample Ma Type (w Sample (C=comp, o=w Time G=grab) BT=Tite						2					Chain of Custody Record	1
	any Received by	any Received by		Time: n	Special In	Sample D	must be shipped back to the shipped back to th					 Solid X	ode: XX	Matrix S=solid: O=wasteol, BT=Tissue, A=AIP) BT=Tissue, A=AIP) BT=Commission BT=Tissue, A=AIP) BT=Tissue, A=AIP) BT=Tiss	ISD (Y 3015NM	es or i	No)		трн	2		Accreditations Required (See NELAP - Texas	E-Mail. Jessica Kramer@et.eurofinsu	Lab PM Kramer Jessica	ly Record	
ia by:	L F	id by:	じんしし		Special Instructions/QC Requirements		the Eurofins Environment Transforment Transf					 × × × ×		8015MOD_Calc 300_ORGFM_2 8021B/5035FP_ Total_BTEX_G	BD/DI_L Calc (M			1e			Analvsis F	equired (See note). 3S	t.eurofinsus com			
		Date		C Method of Shipment:	ments.	Disposal By Lab	south act laboratories. This setting South Central, LLC is ustody attesting to said cor														Requested		State of Origin. New Mexico	Carrier Tracking No(s)		
	Date/Time	Date/Time:	Date/Time	nent:		es are retained long	sample sniphent is forwa iboratory or other instruct npliance to Eurofins Envir					4	X	Total Number	of con Other	itainer L EDA	Software and	F - MeOH G Amchlu H - Ascort) B >	Prese	Job #. 890-3	Page Page		ို့နီ ငျ	
	Company	Company	Company			nger than 1 month) or Months	iarded under chain-of-custody in the tions will be provided Any changes to ironment Testing South Central LLC							Special Instructions/Note:		DTA Y Trizma DA Z - other (specify)	< < د		Loid V4	u ozs	n Codes	Job #. 890-3640-1	Page Page 1 of 1	COC No: 890-1064 1	🐝 eurofins Environment Testing	

5

Job Number: 890-3640-1 SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3640 List Number: 1 Creator: Stutzman, Amanda

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

Job Number: 890-3640-1 SDG Number: Eddy County NM List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3640 List Number: 2 Creator: Teel, Brianna

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

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/22/2022 12:59:25 PM

JOB DESCRIPTION

PLU 27 BD 161H SDG NUMBER Eddy County NM

JOB NUMBER

890-3641-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

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Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 12/22/2022 12:59:25 PM

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

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

Laboratory Job ID: 890-3641-1 SDG: Eddy County NM

Table of Contents

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2

Definitions/Glossary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3641-1 SDG: Eddy County NM

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		8
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	9
Glossary		10
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC ND	Not Calculated 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)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

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

RL

RPD TEF

TEQ

TNTC

Job ID: 890-3641-1 SDG: Eddy County NM

Job ID: 890-3641-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: PLU 27 BD 161H

Narrative

Job Narrative 890-3641-1

Receipt

The sample was received on 12/13/2022 1:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS11 (890-3641-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-22528-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-41926/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-41926 and analytical batch 880-41982 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-41926 and analytical batch 880-41982 was outside control limits. Sample non-homogeneity is suspected.

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

5

Job ID: 890-3641-1 SDG: Eddy County NM

Lab Sample ID: 890-3641-1

Client Sample ID: SS11

Project/Site: PLU 27 BD 161H

Date Collected: 12/07/22 14:15 Date Received: 12/13/22 13:30

Sample Depth: 0.5'

Client: Ensolum

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/20/22 21:30	12/21/22 20:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/20/22 21:30	12/21/22 20:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/20/22 21:30	12/21/22 20:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/20/22 21:30	12/21/22 20:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/20/22 21:30	12/21/22 20:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/20/22 21:30	12/21/22 20:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			12/20/22 21:30	12/21/22 20:59	1
1,4-Difluorobenzene (Surr)	105		70 - 130			12/20/22 21:30	12/21/22 20:59	1
Method: TAL SOP Total BTEX - To	tal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	mg/Kg			12/22/22 13:15	1
Method: SW846 8015 NM - Diesel	Range Organ	<mark>ics (DRO) (</mark> Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diesel Analyte	Range Organ Result		RL		D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diesel Analyte Total TPH	Range Organ Result 61.2	Qualifier	RL 50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared		
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese	Range Organ Result 61.2 el Range Orga	Qualifier	RL 50.0	mg/Kg			12/19/22 15:03	1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	Range Organ Result 61.2 I Range Orga Result	Qualifier nics (DRO) Qualifier	RL 50.0 (GC) RL	mg/Kg Unit	D	Prepared	12/19/22 15:03 Analyzed	
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Range Organ Result 61.2 el Range Orga	Qualifier nics (DRO) Qualifier	RL 50.0	mg/Kg			12/19/22 15:03	1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Range Organ Result 61.2 I Range Orga Result	Qualifier	RL 50.0 (GC) RL	mg/Kg Unit		Prepared	12/19/22 15:03 Analyzed	1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Range Organ Result 61.2 el Range Orga Result <50.0	Qualifier nics (DRO) Qualifier U *1	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 12/15/22 14:18	Analyzed 12/16/22 17:19	1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Range Organ Result 61.2 el Range Orga Result <50.0 61.2	Qualifier nics (DRO) Qualifier U *1 U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:18 12/15/22 14:18	Analyzed 12/19/22 15:03 Analyzed 12/16/22 17:19 12/16/22 17:19	1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Range Organ Result 61.2 el Range Orga Result <50.0	Qualifier nics (DRO) Qualifier U *1 U	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:18 12/15/22 14:18 12/15/22 14:18	Analyzed 12/16/22 17:19 12/16/22 17:19 12/16/22 17:19 12/16/22 17:19	1 Dil Fac 1 1 1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Range Organ Result 61.2 el Range Orga Result <50.0 61.2 <50.0 %Recovery	Qualifier nics (DRO) Qualifier U *1 U	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:18 12/15/22 14:18 12/15/22 14:18 12/15/22 14:18 Prepared	Analyzed 12/16/22 17:19 12/16/22 17:19 12/16/22 17:19 12/16/22 17:19 12/16/22 17:19 12/16/22 17:19	1 Dil Fac 1 1 1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl	Range Organ Result 61.2 el Range Orga Result <50.0	Qualifier nics (DRO) Qualifier U *1 U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 50.0 70.130 70.130 70.130	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:18 12/15/22 14:18 12/15/22 14:18 Prepared 12/15/22 14:18	12/19/22 15:03 Analyzed 12/16/22 17:19 12/16/22 17:19 12/16/22 17:19 12/16/22 17:19 12/16/22 17:19	1 Dil Fac 1 1 1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese	Range Organ Result 61.2 el Range Orga Result <50.0	Qualifier nics (DRO) Qualifier U *1 U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 50.0 70.130 70.130 70.130	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:18 12/15/22 14:18 12/15/22 14:18 Prepared 12/15/22 14:18	12/19/22 15:03 Analyzed 12/16/22 17:19 12/16/22 17:19 12/16/22 17:19 12/16/22 17:19 12/16/22 17:19	1 Dil Fac 1 1 1

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Project/Site: PLU 27 BD 161H

Job ID: 890-3641-1 SDG: Eddy County NM

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

Γ				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-22528-A-1-C MS	Matrix Spike	97	109		
880-22528-A-1-D MSD	Matrix Spike Duplicate	104	117		6
890-3641-1	SS11	98	105		
LCS 880-42357/1-A	Lab Control Sample	109	113		
LCSD 880-42357/2-A	Lab Control Sample Dup	123	117		
MB 880-42357/5-A	Method Blank	85	102		8
Surrogate Legend					
BFB = 4-Bromofluorober	nzene (Surr)				9

DFBZ = 1,4-Difluorobenzene (Surr)

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

Lab Sample ID Client Sample ID ICO1 OTPH1 890-3615-A-1-E MS Matrix Spike 109 98 890-3615-A-1-F MSD Matrix Spike Duplicate 105 86

030-3013-A-1-L MO		103	30
890-3615-A-1-F MSD	Matrix Spike Duplicate	105	86
890-3641-1	SS11	103	102
LCS 880-41926/2-A	Lab Control Sample	98	111
LCSD 880-41926/3-A	Lab Control Sample Dup	128	134 S1+
MB 880-41926/1-A	Method Blank	112	115

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Job ID: 890-3641-1 SDG: Eddy County NM

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 42357

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42357/5-A

Project/Site: PLU 27 BD 161H

Matrix: Solid Analysis Batch: 42409

Client: Ensolum

Analysis Batch: 42409							Prep Batch	
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			12/20/22 21:30	12/21/22 17:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/20/22 21:30	12/21/22 17:53	1

Lab Sample ID: LCS 880-42357/1-A Matrix: Solid

Analysis Batch: 42409

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09323		mg/Kg		93	70 - 130	
Toluene	0.100	0.09102		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09651		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130	
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-42357/2-A

Matrix: Solid

Analysis Batch: 42409							Prep	Batch:	42357
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09835		mg/Kg		98	70 - 130	5	35
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	11	35
Ethylbenzene	0.100	0.1122		mg/Kg		112	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2388		mg/Kg		119	70 - 130	17	35
o-Xylene	0.100	0.1195		mg/Kg		119	70 - 130	17	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-22528-A-1-C MS

Matrix: Solid

Analysis Batch: 42409									Prep	p Batch: 4	2357
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00199	U	0.101	0.09286		mg/Kg		92	70 - 130		
Toluene	<0.00199	U	0.101	0.08719		mg/Kg		86	70 - 130		

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Project/Site: PLU 27 BD 161H

Client: Ensolum

Job ID: 890-3641-1 SDG: Eddy County NM

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

Lab Sample ID: 880-22528-A-1	-C MS									Client S	Sample ID: N		
Matrix: Solid											Prep Typ		
Analysis Batch: 42409											Prep B	atch:	4235
	Sample			Spike	MS	MS					%Rec		
Analyte	Result		er	Added	Result	Qualifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00199			0.101	0.08338		mg/Kg			83	70 - 130		
n-Xylene & p-Xylene	<0.00398	U		0.202	0.1725		mg/Kg			86	70 - 130		
p-Xylene	<0.00199	U		0.101	0.08628		mg/Kg			85	70 - 130		
	MS			1									
Surrogate		Qualifie	er	Limits									
1-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	97 109			70 - 130 70 - 130									
	-											_	
ab Sample ID: 880-22528-A-1								Cile	nt Sa	imple ID:	Matrix Spik		
Matrix: Solid											Prep Typ		
Analysis Batch: 42409	6 l	C		Caller		Med					Prep B	atch:	
A web de	Sample	•		Spike	MSD		11 9		~	0/ D	%Rec	000	RF
Analyte	Result		er	Added		Qualifier	Unit		<u>D</u>	%Rec	Limits	RPD	Lin
Benzene	<0.00199			0.0996	0.09619		mg/Kg			97 80	70 - 130	4 1	
	< 0.00199			0.0996	0.08829		mg/Kg			89	70 - 130	-	
thylbenzene	< 0.00199			0.0996	0.08535		mg/Kg			86	70 - 130	2	
n-Xylene & p-Xylene	< 0.00398			0.199	0.1807		mg/Kg			91	70 - 130	5	
-Xylene	<0.00199	U		0.0996	0.09565		mg/Kg			95	70 - 130	10	
Surrogate	MSD %Recovery	MSD Qualifie	or	Limits									
-Bromofluorobenzene (Surr)	104	Quanne		70 - 130									
,4-Difluorobenzene (Surr)	104			70 - 130 70 - 130									
			(2.2)										
ethod: 8015B NM - Diese	Range Or	ganic	CS (DRO	J) (GC)									
ab Sample ID: MB 880-41926	6/1-A									Client Sa	mple ID: Me		
Matrix: Solid											Ргер Тур		
Analysis Batch: 41982											Prep B	atch:	4192
		MB M											
Analyte		sult Q		RL		Unit		<u>D</u>		repared	Analyzed		Dil F
Basoline Range Organics	<5	50.0 U		50.0)	mg/K	g		12/1	5/22 14:18	12/16/22 08:	33	
GRO)-C6-C10 Diesel Range Organics (Over	<"	50.0 U		50.0)	mg/K	a		12/1	5/22 14:18	12/16/22 08:	33	
C10-C28)				00.0		g/1	3		, 1		, . 5,22 50.		
Oll Range Organics (Over C28-C36)	<5	50.0 U		50.0)	mg/K	g		12/1	5/22 14:18	12/16/22 08:	33	
			D										
	0 (D	MB M		1					-		A		
Chlorocotono	%Recov		uaimer	<i>Limits</i>	-					repared 5/22 14:18	Analyzed	<u></u>	Dil F
-Chlorooctane		112 115		70 - 130 70 - 130							12/16/22 08:		
-Terphenyl		115		70 - 130					12/1	5/22 14:18	12/16/22 08:	55	
ab Sample ID: LCS 880-4192	6/2-A							С	lient	Sample	D: Lab Con	rol S	amp
Aatrix: Solid										- T	Prep Typ	e: To	tal/N
Analysis Batch: 41982											Prep B		
-				Spike	LCS	LCS					%Rec		

								· •
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	918.4		mg/Kg		92	70 - 130	 _
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	903.8		mg/Kg		90	70 - 130	
C10-C28)								

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QC Sample Results

Project/Site: PLU 27 BD 161H

C10-C28)

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

Lab Sample ID: LCS 880-41	926/2-A						Client	Sample	ID: Lab Co	ontrol S	ample
Matrix: Solid										ype: To	
Analysis Batch: 41982										Batch:	
0		LCS	1								
Surrogate 1-Chlorooctane	%Recovery 	Qualifier	Limits 70 - 130								
o-Terphenyl	98 111		70 - 130 70 - 130								
-	111		70 - 750								
Lab Sample ID: LCSD 880-4	1926/3-A					Clier	nt Sam	nple ID:	Lab Contro	I Sampl	e Dup
Matrix: Solid										· ype: To	
Analysis Batch: 41982										Batch:	
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	1055		mg/Kg		105	70 - 130	14	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	1147	*1	mg/Kg		115	70 - 130	24	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	128		70 - 130								
o-Terphenyl	134	S1+	70 - 130								
Lab Sample ID: 890-3615-A-	1.E MS							Client	Sample ID	Matrix	Sniko
Matrix: Solid								onent		ype: To	-
Analysis Batch: 41982										Batch:	
·····,	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U F2	999	1283		mg/Kg		128	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U *1	999	1096		mg/Kg		110	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	109		70 - 130								
o-Terphenyl	98		70 - 130								
Lab Sample ID: 890-3615-A-	1-F MSD					CI	ient Sa	ample ID	: Matrix Sp		
Matrix: Solid										ype: To	
Analysis Batch: 41982	<u> </u>	0	o. "							Batch:	
Analyta	-	Sample	Spike		MSD Ovelifier	l lusit	_	0/ D	%Rec	899	RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	-50.0										
Gasoline Range Organics	<50.0	U F2	997	988.5	F2	mg/Kg		99	70 - 130	26	20
	<50.0 <50.0		997 997	988.5 942.5	F2	mg/Kg mg/Kg		99 95	70 ₋ 130 70 ₋ 130	26 15	20 20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 _ 130
o-Terphenyl	86		70 - 130

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Job ID: 890-3641-1 SDG: Eddy County NM

QC Sample Results

Job ID: 890-3641-1 SDG: Eddy County NM

Client: Ensolum Project/Site: PLU 27 BD 161H

Method: 300.0 - Anions, Ion Chromatography

										Clie	ent S	ample ID:	Method	Blank
Matrix: Solid													Type: S	
Analysis Batch: 42049														
		MB M	IB											
Analyte	Re	esult Q	ualifier		RL		Un	it	D	Prepa	red	Analyz	zed	Dil Fac
Chloride	<	5.00 U	I		5.00		mg	/Kg				12/19/22	21:05	1
Lab Sample ID: LCS 880-41923/2-A									Clie	nt Sar	nple	ID: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
				Spike		LCS	LCS					%Rec		
Analyte				Added			Qualifier	Unit		D %F	lec	Limits		
Chloride				250		235.6		mg/Kg			94	90 - 110		
Lab Sample ID: LCSD 880-41923/3-	Α							CI	ient Sa	ample	ID: L	ab Contro	ol Sampl	le Dup
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added		Result	Qualifier	Unit		D%F	lec	Limits	RPD	Limit
Chloride				250		237.1		mg/Kg			95	90 - 110	1	20
Lab Sample ID: 890-3637-A-1-B MS										CI	ient	Sample ID	: Matrix	Spike
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
	Sample	Sample	e	Spike		MS	MS					%Rec		
Analyte	Result	Qualifi	er	Added			Qualifier	Unit		D%F	lec	Limits		
Chloride	6580			5020		11410		mg/Kg			96	90 - 110		
Lab Sample ID: 890-3637-A-1-C MS	D								Client	Samp	le ID	: Matrix S	oike Dur	olicate
Matrix: Solid													Type: S	
Analysis Batch: 42049														
	Sample	Sample	Ð	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifi	er	Added		Result	Qualifier	Unit	[D %F	lec	Limits	RPD	Limit
Chloride	6580			5020		11440		mg/Kg			97	90 - 110	0	20

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QC Association Summary

Client: Ensolum Project/Site: PLU 27 BD 161H

Job ID: 890-3641-1 SDG: Eddy County NM

GC VOA

Prep Batch: 42357

ep Batch: 42357					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3641-1	SS11	Total/NA	Solid	5035	
MB 880-42357/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42357/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42357/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22528-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-22528-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 42409					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3641-1	SS11	Total/NA	Solid	8021B	42357
MB 880-42357/5-A	Method Blank	Total/NA	Solid	8021B	42357
LCS 880-42357/1-A	Lab Control Sample	Total/NA	Solid	8021B	42357
LCSD 880-42357/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42357
880-22528-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	42357
880-22528-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42357
Analysis Batch: 42524					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3641-1	SS11	Total/NA	Solid	Total BTEX	

Prep Batch: 41926

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3641-1	SS11	Total/NA	Solid	8015NM Prep	
MB 880-41926/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41926/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41926/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3615-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3615-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3641-1	SS11	Total/NA	Solid	8015B NM	41926
MB 880-41926/1-A	Method Blank	Total/NA	Solid	8015B NM	41926
LCS 880-41926/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41926
LCSD 880-41926/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41926
890-3615-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	41926
890-3615-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3641-1	SS11	Total/NA	Solid	8015 NM	
 _					

HPLC/IC

Leach Batch: 41923

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3641-1	SS11	Soluble	Solid	DI Leach	
MB 880-41923/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Job ID: 890-3641-1 SDG: Eddy County NM

HPLC/IC (Continued)

LCSD 880-41923/3-A

890-3637-A-1-B MS

890-3637-A-1-C MSD

Leach Batch: 41923 (Continued)

Matrix Spike

Lab Control Sample Dup

Matrix Spike Duplicate

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3637-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3637-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
Analysis Batch: 42049 Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Lab Sample ID		Prep Type Soluble	Matrix Solid	<u>Method</u> 300.0	Prep Batch 41923
Analysis Batch: 42049 - Lab Sample ID 890-3641-1 MB 880-41923/1-A	Client Sample ID				

Soluble

Soluble

Soluble

Solid

Solid

Solid

300.0

300.0

300.0

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41923

41923

Job ID: 890-3641-1 SDG: Eddy County NM

Lab Sample ID: 890-3641-1 Matrix: Solid

Date Collected: 12/07/22 14:15 Date Received: 12/13/22 13:30

Project/Site: PLU 27 BD 161H

Client Sample ID: SS11

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42357	12/20/22 21:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42409	12/21/22 20:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42524	12/22/22 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			42186	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41926	12/15/22 14:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 17:19	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42049	12/19/22 21:59	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 2/19/2024 3:33:11 PM

Accreditation/Certification Summary

Client: Ensolum	
Project/Site: PLU 27 BD 161F	ł

Job ID: 890-3641-1 SDG: Eddy County NM

Laboratory: Eurofins Midland

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

uthority	I	Program	Identification Number	Expiration Date
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the agency does not of	1 /	out the laboratory is not certili	ied by the governing authority. This list ma	ay include analytes to
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Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3641-1 SDG: Eddy County NM

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3641-1 SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3641-1	SS11	Solid	12/07/22 14:15	12/13/22 13:30	0.5'	4
						5
						8
						9
						12
						13

tit Manager Ben Belili sas 3122 National parks Hwy State ZIP: Carisbad, NM 86220 a 9898540852 charlsbad, NM 86220 Email a PLU 27 BD 161H Turn ct Number 03E1558089 Z Rourine ct Number Chris Brown Totation ler's Name Chris Brown Tat starts the e Received Intact: Yes No r Custody Seals Yes Correcide Temperature containers Sampled Sampled Sampled Sample Identification Matrix Sampled Sampled Signature of this document ind relinquithment of samples constitutes a vulid price. TCLP / S Signature of this document ind relinquit for the cost of samples and sha		I		2			2		
Impany Name Ensolum LLC Company Name XTO Energy. dress 3122 National parks Hwy Address 3104 E. Gree Sample S. Received Inact: VC COUNTY. NM Due Date: Turn Around Feat. Great		en Belill		B	Bill to (if different)	Ga	irrett Gree	en	
Address 3122 National parts Hwy Address Address 3104 E. Gree Dry State ZIP Carlsbad, NM 86220 Email: bielili@ensolum.com Email: bielili@ensolum.com Project Name PLU 27 BD 161H Turn Around Res. Carlsbad, NV Sampler's Name DSE 1558069 Exotine Rush Carlsbad, NV Dorgect Location EDDY COUNTY, NM Due Dafe: Rush Carlsbad, NV Dorgect Location EDDY COUNTY, NM Due Dafe: Rush Carlsbad, NV Dorgect Location EDDY COUNTY, NM Due Dafe: Rush Rush Carlsbad, NV Sampler S Name Chris Brown The sub if received by 4:30pm Rush		nsolum, LLC		C	ompany Name:	XT	O Energy	/. Inc.	
Ony. State ZIP Carlsbad, NM 88220 City. State ZIP Carlsbad, NM 88220 Proper 9898540852 Email. bbelil@ensolum.com Project Number 03E1558089 Enzy Round Rush Vers. Project Number 03E1558089 Enzy Round Rush Vers. Operation EDDY COUNTY. NM Due Date: Rush Vers. SAMPLE RECEIPT Temp Blank Vers. No Wet Ice. Yes. Sample Received Intact: Vers. No Temperature Reading Vers. Parameters Contencture Status Vers. No Matrix Sampled Sampled Graft Control Custody Seals Vers. Over Temperature Reading Vers. Parameters Sample clantification Matrix Sampled Temperature Vers. Parameters Parameters Sample Identification Matrix Sampled Sampled Depth Cont Cont Cont Sample Identification Matrix Sampled Sampled Samp	Address 31	122 National parks H	łwy	A	ddress	310	04 E. Gre	en S	treet
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Independence EDDY COUNTY, NM Due Date: Bampler's Name Chris Brown TAT starts the day received by O # Tat starts the day received by Sample SAMPLE RECEIPT Temp Blank Ver for No Sample Received Intact: (Yrag No Thermonmeter ID: In the lab. freecend by 4:30m Coller Custody Seals Yes No Thermonmeter ID: In the lab. freecend by 4:30m Coller Custody Seals Yes No Temperature Reading Intellor Intellor Coller Custody Seals Yes No Wet Temperature Sampled Sampled Sampled Sampled Corrected Temperature Sampled Cont Corrected Temperature Sampled Cont Parameters Sample Identification Matrix Sampled Sampled Sampled Depth Comp Cont Christ Sampled Depth Comp Cont Christ Sampled Int X X Signature of this document and relinquishment of samples constitutes a valid purchase or or equination that not samples usentituites a valid purchase or enonpany to Eurofice. <	Project Number:	03E15580	99		_	Pres. Code			
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Chain of Custody

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Houston, TX (281) 240-4200, Dalles, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 508-3334

Received by OCD: 8/17/2023 1:05:35 PM

Custody Seals Intact. Custody Seal No	Relinquished by	Refinquished by	Relinquished by	Empty Kit Relinquished by	Deliverable Requested I II III IV Other (specify)	Possible Hazard Identification Unconfirmed	Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC								SS11 (890-3641-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name. PLU 27 BD 161H	Email	Phone: 432-704-5440(Tel)	State Zip: TX, 79701	City Midland	Address. 1211 W Florida Ave, ,	Eurofins Environment Testing South Centr	Shipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St. Carlsbad, NM 88220 Phone. 575-988-3199 Fax. 575-988-3199	
	Date/Time	Date/Time:	Date/Time:		Primary Deliverable Rank		Iment Testing South Central ad above for analysis/tests/m n Central LLC attention imm								12/7/22	X	Sample Date	SSOW#:	Project #: 89000093	WO #:	PO #		TAT Requested (days):	Due Date Requested 12/19/2022		Prione:	Sampler		
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Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC	Testing South Centra ove for analysis/tests/ tral, LLC attention im	ıl, LLC places t matrix being an mediately If al	he ownership alyzed the sa l requested ac	of method anal mples must be creditations are	yte & ac shipped current	creditati back to to date,	on con the Eu return	nplianc rrofins the sig	e upor Enviro Ined C	n our su nment hain of	ibcontr Testing Custo	act lab J South dy atte	oratori I Centr sting to	al LLC	vis san Clabor Dompli	nple sl atory ance t	nipme or othe	nt is f er inst ofins l	orwarded under tructions will be Environment Te	rchain provid sting S	-of-custody If the led Any changes to south Central LLC
Possible Hazard Identification Unconfirmed					Sau	Sample Disposal (A fee	o <mark>le Disposal (A f</mark> Beturn To Client	sal (A fee		bea	SSes	sed ii	sam	ples	⊓are	retai	ned	may be assessed if samples are retained longer than		month)
Deliverable Requested 1 II III, IV, Other (specify)	Primary Deliverable Rank.	ble Rank. 2			ds.	Special Instructions/QC Requirements	nstruc	tions/	OC F	Requir	emer	ents	ar by	Las			2				MOINTS
Empty Kit Relinquished by		Date			Time,	2			\cdot				Method of Shipment:	1 of St	ipmer	Ŧ					
Relinquished by	Date/Time			Company			Ŕ	স	Y	\square					Date/Time	ne.				<u></u>	Company
Reininguisned by	Date/Time [.]			Company		Received by	ed by	5 5 5 7 7		(Date/Time	me				Q	Company
Relinquished by	Date/Time:			Company		Received by	ed by:								Date/Time	me				0	Company
Custody Seals Intact. Custody Seal No ∆ Yes ∆ No						Cooler Temperature(s) °C	Temp	orature		and Other Remarks:	her Re	marks:								ŀ	

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3641 List Number: 1 Creator: Stutzman, Amanda

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

Job Number: 890-3641-1 SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

Job Number: 890-3641-1 SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3641 List Number: 2 Creator: Teel, Brianna

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

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

Received by OCD: 8/17/2023 1:05:35 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/22/2022 1:00:15 PM

JOB DESCRIPTION

PLU 27 BD 161H SDG NUMBER Eddy County NM

JOB NUMBER

890-3642-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Received by OCD: 8/17/2023 1:05:35 PM

1

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 12/22/2022 1:00:15 PM

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

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

Laboratory Job ID: 890-3642-1 SDG: Eddy County NM

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-	21

2

Definitions/Glossary

Client: Ensolum Project/Site: PLU 27 BD 161H

MCL

Job ID: 890-3642-1 SDG: Eddy County NM

Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA Qualifier	Qualifier Description	5
*1	LCS/LCSD RPD exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		8
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	9
Glossary		10
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	13
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	

MDA Minimum Detectable Activity (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

MDC Minimum Detectable Concentration (Radiochemistry)

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

Practical Quantitation Limit PQL PRES Presumptive

QC **Quality Control** RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

Job ID: 890-3642-1 SDG: Eddy County NM

Job ID: 890-3642-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: PLU 27 BD 161H

Narrative

Job Narrative 890-3642-1

Receipt

The sample was received on 12/13/2022 1:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS10 (890-3642-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-22528-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-41926/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-41926 and analytical batch 880-41982 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-41926 and analytical batch 880-41982 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

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

Job ID: 890-3642-1 SDG: Eddy County NM

Client Sample ID: SS10

Project/Site: PLU 27 BD 161H

Date Collected: 12/07/22 14:00 Date Received: 12/13/22 13:30

Sample Depth: 0.5'

Chloride

Client: Ensolum

Sample Depth: 0.5'								
– Method: SW846 8021B - Volatil	e Organic Comp	ounds (GC)					
Analyte	• •	Qualifier	, RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 21:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 21:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 21:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/20/22 21:30	12/21/22 21:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 21:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/20/22 21:30	12/21/22 21:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			12/20/22 21:30	12/21/22 21:20	1
1,4-Difluorobenzene (Surr)	106		70 - 130			12/20/22 21:30	12/21/22 21:20	1
- Method: TAL SOP Total BTEX -	Total BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/22/22 13:15	1
_ Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/19/22 15:03	1
_ Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(60)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0		50.0	mg/Kg		12/15/22 14:18	12/16/22 17:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		12/15/22 14:18	12/16/22 17:41	1
010-0207								

Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/22 14:18	12/16/22 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			12/15/22 14:18	12/16/22 17:41	1
o-Terphenyl	116		70 _ 130			12/15/22 14:18	12/16/22 17:41	1
Method: MCAWW 300.0 - Anions, Analyte		o <mark>graphy - S</mark> Qualifier	Soluble RL	Unit	D	Prepared	Analyzed	Dil Fac

5.00

mg/Kg

195

Eurofins Carlsbad

12/19/22 22:03

Matrix: Solid

1
Project/Site: PLU 27 BD 161H

Job ID: 890-3642-1 SDG: Eddy County NM

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

Γ				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-22528-A-1-C MS	Matrix Spike	97	109		
880-22528-A-1-D MSD	Matrix Spike Duplicate	104	117		6
890-3642-1	SS10	104	106		
LCS 880-42357/1-A	Lab Control Sample	109	113		
LCSD 880-42357/2-A	Lab Control Sample Dup	123	117		
MB 880-42357/5-A	Method Blank	85	102		8
Surrogate Legend					
BFB = 4-Bromofluorober	nzene (Surr)				9

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) Lab Sample ID **Client Sample ID** (70-130) 890-3615-A-1-E MS Matrix Spike 109 98 890-3615-A-1-F MSD Matrix Spike Duplicate 105 86 890-3642-1 SS10 123 116 LCS 880-41926/2-A Lab Control Sample 98 111 LCSD 880-41926/3-A Lab Control Sample Dup 128 134 S1+ MB 880-41926/1-A Method Blank 112 115

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Page 181 of 310

Job ID: 890-3642-1 SDG: Eddy County NM

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 42357

Client Sample ID: Method Blank

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample	ID:	MB	880-42357/5-A

Project/Site: PLU 27 BD 161H

Matrix: Solid Analysis Batch: 42409

Client: Ensolum

						i top typet	
						Prep Batch	n: 42357
MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
<0.00400	U	0.00400	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
<0.00200	U	0.00200	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
<0.00400	U	0.00400	mg/Kg		12/20/22 21:30	12/21/22 17:53	1
МВ	МВ						
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
85		70 - 130			12/20/22 21:30	12/21/22 17:53	1
102		70 - 130			12/20/22 21:30	12/21/22 17:53	1
	Result <0.00200	Result Qualifier <0.00200	Result Qualifier RL <0.00200	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	Result Qualifier RL Unit D Prepared <0.00200	MB MB Result Qualifier RL Unit D Prepared Analyzed <0.00200

Lab Sample ID: LCS 880-42357/1-A Matrix: Solid

Analysis Batch: 42409

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09323		mg/Kg		93	70 - 130	
Toluene	0.100	0.09102		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09651		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130	
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-42357/2-A

Matrix: Solid

Analysis Batch: 42409							Prep Batch: 4		42357	
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09835		mg/Kg		98	70 - 130	5	35	
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	11	35	
Ethylbenzene	0.100	0.1122		mg/Kg		112	70 - 130	15	35	
m-Xylene & p-Xylene	0.200	0.2388		mg/Kg		119	70 - 130	17	35	
o-Xylene	0.100	0.1195		mg/Kg		119	70 - 130	17	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-22528-A-1-C MS

Matrix: Solid

Analysis Batch: 42409									Prep	Batch: 4	12357	
	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	< 0.00199	U	0.101	0.09286		mg/Kg		92	70 - 130			
Toluene	<0.00199	U	0.101	0.08719		mg/Kg		86	70 - 130			

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

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

Released to Imaging: 2/19/2024 3:33:11 PM

								.	n		.
Lab Sample ID: 880-22528-A	1-1-C MS							Client	Sample ID:		
Matrix: Solid										ype: To	
Analysis Batch: 42409										Batch:	42357
	Sample	-	Spike	MS					%Rec		
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00199	U	0.101	0.08338		mg/Kg		83	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1725		mg/Kg		86	70 - 130		
o-Xylene	<0.00199	U	0.101	0.08628		mg/Kg		85	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	97		70 - 130								
1,4-Difluorobenzene (Surr)	109		70 - 130								
						Cli	ent Sa	ample ID	: Matrix Sp	oike Dup	olicate
Lab Sample ID: 880-22528-A						Cli	ent Sa	ample ID): Matrix Sp Prep T		
Lab Sample ID: 880-22528-A Matrix: Solid						Cli	ent Sa	ample ID	Prep T	ype: To	tal/NA
Lab Sample ID: 880-22528-A Matrix: Solid		Sample		MSD	MSD	Cli	ent Sa	ample ID	Prep T		tal/NA
Lab Sample ID: 880-22528-A Matrix: Solid Analysis Batch: 42409	A-1-D MSD Sample	Sample Qualifier	70 - 130		MSD Qualifier	Cli Unit	ient Sa	ample ID %Rec	Prep T Prep	ype: To	tal/NA 42357
Lab Sample ID: 880-22528-A Matrix: Solid Analysis Batch: 42409 Analyte	A-1-D MSD Sample	Qualifier	70 ₋ 130 Spike					-	Prep T Prep %Rec	ype: To Batch:	tal/NA 42357 RPD
Lab Sample ID: 880-22528-A Matrix: Solid Analysis Batch: 42409 Analyte Benzene	A-1-D MSD Sample Result	Qualifier U	70 - 130 Spike Added	Result		Unit		%Rec	Prep T Prep %Rec Limits	ype: To Batch: RPD	tal/NA 42357 RPD Limit
Lab Sample ID: 880-22528-A Matrix: Solid Analysis Batch: 42409 Analyte Benzene Toluene	A-1-D MSD Sample Result <0.00199	Qualifier U U	70 - 130 Spike Added 0.0996	Result 0.09619		- <mark>Unit</mark> mg/Kg		%Rec 97	Prep T Prep %Rec Limits 70 - 130	ype: To Batch: RPD 4	tal/NA 42357 RPD Limit 35
Lab Sample ID: 880-22528-A Matrix: Solid Analysis Batch: 42409 Analyte Benzene Toluene Ethylbenzene	Sample Result <0.00199 <0.00199	Qualifier U U U	70 - 130 Spike Added 0.0996 0.0996	Result 0.09619 0.08829		- <mark>Unit</mark> mg/Kg mg/Kg		%Rec 97 89	Prep T Prep %Rec Limits 70 - 130 70 - 130	ype: To Batch: RPD 4 1	tal/NA 42357 RPD Limit 35 35
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-22528-A Matrix: Solid Analysis Batch: 42409 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	A-1-D MSD Sample Result <0.00199 <0.00199 <0.00199	Qualifier U U U U U	Spike Added 0.0996 0.0996 0.0996	Result 0.09619 0.08829 0.08535		- <mark>Unit</mark> mg/Kg mg/Kg mg/Kg		%Rec 97 89 86	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130	ype: Tor Batch: RPD 4 1 2	tal/NA 42357 RPD Limit 35 35 35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 _ 130
1,4-Difluorobenzene (Surr)	117		70 - 130

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

Lab Sample ID: MB 880-41926/1- Matrix: Solid Analysis Batch: 41982						Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
	MB	MB	5.		_	- ·		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		12/15/22 14:18	12/16/22 08:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		12/15/22 14:18	12/16/22 08:33	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/22 14:18	12/16/22 08:33	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			12/15/22 14:18	12/16/22 08:33	1
o-Terphenyl	115		70 - 130			12/15/22 14:18	12/16/22 08:33	1
Lab Sample ID: LCS 880-41926/2	?-A				c	lient Sample I	D: Lab Control	Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 41982 Prep Batch: 41926 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1000 918.4 92 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 903.8 mg/Kg 90 70 - 130 C10-C28)

Eurofins Carlsbad

QC Sample Results

Project/Site: PLU 27 BD 161H

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

Lab Sample ID: LCS 880-41	926/2-A						Client	Sample	ID: Lab Co	ontrol Sa	ample
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 41982									Prep	Batch:	41926
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
o-Terphenyl	111		70 - 130								
Lab Sample ID: LCSD 880-4	1926/3-A					Clier	nt San	nple ID:	_ab Contro	l Sampl	e Dup
Matrix: Solid										ype: To	
Analysis Batch: 41982										Batch:	
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	1055		mg/Kg		105	70 - 130	14	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	1147	*1	mg/Kg		115	70 - 130	24	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	128		70 - 130								
o-Terphenyl	134	S1+	70 - 130								
<u>-</u>											
Lab Sample ID: 890-3615-A-	-1-E MS							Client	Sample ID		
Matrix: Solid										ype: To	
Analysis Batch: 41982										Batch:	41926
	-	Sample	Spike	MS	MS				%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	999	1283		mg/Kg		128	70 - 130		
Diesel Range Organics (Over	<50.0	U *1	999	1096		mg/Kg		110	70 - 130		
C10-C28)	00.0	•		1000					10-100		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	109		70 - 130								
o-Terphenyl	98		70 - 130								
- Lab Sample ID: 890-3615-A						C	ant C	omolo IC	Motrix Cr	iko Dur	lieste
Matrix: Solid						Ci	ent S		: Matrix Sp	ype: To	
Analysis Batch: 41982										Batch:	
Analysis Datch: 41502	Sample	Sample	Spike	MSD	MSD				%Rec	Datch.	RPD
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0		997	988.5		mg/Kg		99	70 - 130	26	20
(GRO)-C6-C10				000.0	-						23
Diesel Range Organics (Over	<50.0	U *1	997	942.5		mg/Kg		95	70 - 130	15	20
C10-C28)											
	MSD	MSD									

Page 184 of 310

Job ID: 890-3642-1

SDG: Eddy County NM

Eurofins Carlsbad

Surrogate 1-Chlorooctane

o-Terphenyl

%Recovery Qualifier

105

86

Limits

70 - 130

70 - 130

QC Sample Results

Job ID: 890-3642-1 SDG: Eddy County NM

Client: Ensolum Project/Site: PLU 27 BD 161H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41923/1-A											Client S	ample ID:	Method	Blank
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
		MB N	ИВ											
Analyte	Re	esult C	Qualifier		RL		Un	it	D	Pi	repared	Analy	zed	Dil Fac
Chloride	<	5.00 L	J		5.00		mg	/Kg				12/19/22	21:05	1
Lab Sample ID: LCS 880-41923/2-A									Cli	ent	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250		235.6		mg/Kg			94	90 - 110		
Lab Sample ID: LCSD 880-41923/3-	Α							CI	ient S	Sam	ple ID:	Lab Contro	ol Samp	le Dup
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added		Result	Qualifie	Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		237.1		mg/Kg		_	95	90 - 110	1	20
Lab Sample ID: 890-3637-A-1-B MS											Client	Sample ID): Matrix	Spike
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 42049														
	Sample	Sampl	le	Spike		MS	MS					%Rec		
Analyte	Result	Qualifi	ier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	6580			5020		11410		mg/Kg		_	96	90 _ 110		
- Lab Sample ID: 890-3637-A-1-C MS	D								Client	t Sa	mple IC): Matrix S	pike Du	plicate
Matrix: Solid											•		Type: S	
Analysis Batch: 42049														
-	Sample	Sampl	le	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifi	ier	Added		Result	Qualifie	Unit		D	%Rec	Limits	RPD	Limit
Chloride	6580			5020						_	97	90 - 110	0	20

QC Association Summary

Client: Ensolum Project/Site: PLU 27 BD 161H

Job ID: 890-3642-1 SDG: Eddy County NM

GC VOA

Prep Batch: 42357

rep Batch: 42357					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3642-1	SS10	Total/NA	Solid	5035	
MB 880-42357/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42357/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42357/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22528-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-22528-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 42409					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3642-1	SS10	Total/NA	Solid	8021B	42357
MB 880-42357/5-A	Method Blank	Total/NA	Solid	8021B	42357
LCS 880-42357/1-A	Lab Control Sample	Total/NA	Solid	8021B	42357
LCSD 880-42357/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42357
880-22528-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	42357
880-22528-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42357
analysis Batch: 42525					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3642-1	SS10	Total/NA	Solid	Total BTEX	

Prep Batch: 41926

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3642-1	SS10	Total/NA	Solid	8015NM Prep	
MB 880-41926/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41926/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41926/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3615-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3615-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3642-1	SS10	Total/NA	Solid	8015B NM	41926
MB 880-41926/1-A	Method Blank	Total/NA	Solid	8015B NM	41926
LCS 880-41926/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41926
LCSD 880-41926/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41926
890-3615-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	41926
890-3615-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3642-1	SS10	Total/NA	Solid	8015 NM	
—					

HPLC/IC

Leach Batch: 41923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3642-1	SS10	Soluble	Solid	DI Leach	
MB 880-41923/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Job ID: 890-3642-1

SDG: Eddy County NM

5

8

41923

41923

41923

HPLC/IC (Continued)

LCSD 880-41923/3-A

890-3637-A-1-B MS

890-3637-A-1-C MSD

Leach Batch: 41923 (Continued)

Lab Control Sample Dup

Matrix Spike Duplicate

Matrix Spike

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3637-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3637-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
Analysis Batch: 42049					
Analysis Batch: 42049 Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
-		Prep Type Soluble	Matrix Solid	<u>Method</u> 300.0	Prep Batch 41923
Lab Sample ID	Client Sample ID				

Soluble

Soluble

Soluble

Solid

Solid

Solid

300.0

300.0

300.0

Job ID: 890-3642-1 SDG: Eddy County NM

Lab Sample ID: 890-3642-1 Matrix: Solid

Client Sample ID: SS10 Date Collected: 12/07/22 14:00 Date Received: 12/13/22 13:30

Project/Site: PLU 27 BD 161H

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42357	12/20/22 21:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42409	12/21/22 21:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42525	12/22/22 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			42187	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41926	12/15/22 14:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 17:41	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42049	12/19/22 22:03	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 2/19/2024 3:33:11 PM

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 27 BD 161H

Job ID: 890-3642-1 SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	y Pro		Identification Number	Expiration Date
Texas		ELAP	T104704400-22-25	06-30-23
T () () ()		it the leberatery is not cortif	te al la contra construir a construir de la Tiete d'ante acce	
The following analytes the agency does not of	1 /	at the laboratory is not certin	ied by the governing authority. This list ma	ay include analytes to
0,	1 /	Matrix	Analyte	ay include analytes to

Method Summary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3642-1 SDG: Eddy County NM

Nethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
lotal BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
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
01 Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3642-1 SDG: Eddy County NM

_ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
390-3642-1	SS10	Solid	12/07/22 14:00	12/13/22 13:30	0.5'	4
						5
						8
						9
						12
						13

🔅 eurofins		Environment Testing Xenco	esting	Houst Midland EL Pa:	ton, TX (2 , TX (432 so, TX (9	81) 240-) 704-54 15) 585-:	4200, Dell 40, San An 3443, Lubb	Houston, TX (281) 240-4200, Dellas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (815) 585-3443, Lubbock, TX (806) 794-1296	16 16	Wor	Work Order No:	
				Hobbs	, NM (57	5) 392-70	550, Carlsb	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	8	M	www.xenco.com	Page 1 of
Project Manager	Ben Belill			Bill to (If different)		Garrett Green	reen				Con	ments
	Ensolum, LLC			Company Name		XTO Energy, Inc	rgy, Inc.		Pro	gram: UST/PST [Program: UST/PST PRP Brownfields RRC	ds 🗌 RRC 🔲 Superfund 🗍
	3122 National parks Hwy	ks Hwy		Address		104 E. C	3104 E. Green Street	et	Sta	State of Project:]	
te ZIP	Carlsbad, NM 88220	20		City. State ZIP	0	arlsbad	Carlsbad, NM 88220	0	Re	porting Level II	Reporting Level II Level III PST/UST TRRP	
	9898540852		Email	bbelill@ensolum.com	m.com				De	Deliverables EDD	ADaPT	Other:
Project Name	PLU 27 BD 161H	3D 161H	Turn	Turn Around				ANAL	ANALYSIS REQUEST	ST		Preservative Codes
Project Number:	03E1558089	58089	Routine	C Rush	Pres.						Non	None: NO DI Water: H2O
Project Location	EDDY COUNTY, NM	JNTY, NM	Due Date:								Coo	0
Sampler's Name	Chris Brown	Brown	TAT starts the	TAT starts the day received by							HCI	
PO #			the lab, if reci	the lab, if received by 4:30pm	ers			-	-		H,S	H ₂ SO ₄ H ₂ NaOH: Na
SAMPLE RECEIPT	PT Temp Blank	ik (New No	Wet Ice	Kes No		.0)					H ₃ P	H ₃ PO ₄ HP
Samples Received Intact		Thermometer ID	er ID:	TIME ED	arar	300					Nat	NaHSO4: NABIS
Cooler Custody Seals	Yes No /	N/A Correction Factor	Factor	0.0		PA					Naz	Na25203. NASO3
Sample Custody Seals	Yes No	N/A Temperature Reading	e Reading	+ 2				890-3642 Chain	Chain of Cu-		Nac	VaOH+Ascorbic Acid SAPC
Sample Identification		Matrix Date Sampled	Date Time Sampled Sampled	Depth Grab/ Comp	# of Cont	TPH (80	BTEX (8				-	Sample Comments
202		40/7/2000	o k (rn)		Т	+	-					
Solo		IEIHEOEE	1700	U.J Clau		+++	++++					Cost Center: Toppad Tur
												NAPP2218236445
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	010 200.8 / 6020: nd Metal(s) to be an	0: nalvzed	BRCRA 13PPM	RA 13PPM Texas 11 AI S TCLP / SPLP 6010: 8RCRA	AI SB	As Ba b As B	a Be	3 Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	u Fe Pb Mg Mn Mo Ni S	Mg Mn Mo Ni K Se Ni Se Ag TI U	e Ag SiO ₂ Na Sr TI Sn U Hg: 1631/245.1/7470	TI Sn U V Zn 1.1/7470 /7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of aerolice. 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 contro of samples at a shall not assume any responsibility for any losses are capanases incurred by the client if such losses are due to circumstances beyond the contro of the contro. A minimum charge of \$35.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofine Xenco. A minimum charge of \$35.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofine Xenco, but not analyzed. These terms will be enforced unless previously negotia	document and relinquish co will be liable only for t himum charge of \$25.00 v	ment of samples co he cost of samples a vill be applied to eac	nstitutes a valid pu ind shall not assun h project and a cha	rchase order from c ne any responsibility irge of \$5 for each s	lient comp y for any lo ample sub	pany to E osses or o mitted to	urofins Xen expenses in Eurofins X	o, its affiliates and sub curred by the client if s moo, but not analyzed.	contractors. It assi uch losses are due These terms will be	ctors. It assigns standard terms and conditions assa am due to circumstances beyond the control terms will be enforced unless previously negotiated	nd conditions and the control lously negotisted.	
Relinquished by: (Signature)	r. (Signature)	Receiv	Received by: (Signature)	ure)		Date/Time	ne	Relinquished by:	by: (Signature)	Receiv	Received by: (Signature)	Date/Time
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Received by OCD: 8/17/2023 1:05:35 PM

Custody Seals Intact: Custody Seal No	Relinquished by	Relinquished by	Relinquished by:	Empty Kit Relinguished by	Deliverable Requested 1 II III IV Other (specify)	Possible Hazard Identification Unconfirmed	Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC attention immediately.				SS10 (890-3642-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name: PLU 27 BD 161H	Email	Phone 432-704-5440(Tel)	State Zip TX, 79701	City Midland	Address. 1211 W Florida Ave ,	Eurofins Environment Testing South Centr	Chipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St. Carlsbad NM 88220 Phone: 575-988-3199 Fax: 575-988-3199	Eurofins Carlsbad
	Date/Time:	Date/Time:	Date/Time		Primary Deliverable Rank 2		ent Testing South Cent above for analysis/test Central LLC attention ir				12/7/22	X	Sample Date	SSOW#	Project #: 89000093	WO #:	PO#		TAT Requested (days)	Due Date Requested 12/19/2022		Phone.	Sampler		
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	Company	Company	Company				e ownership of me llyzed, the sample requested accredi		 			Preservation Code:	Sample M Type (w (C=comp, o= G=grab) B1=Ti											Chain of Custody Record	
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Cool	Rece	Recen	Red	Time:	Special Instructions/QC Requirements	Sample	& accredit pped back rent to dat				 ×	X	Perform MS/ 8015MOD_NM	99999999999999999999999999999				ТРН			Accreditations Required (See note): NELAP - Texas	E-Mail Jessica.Kramer@et.eurofinsus	Jessica	ord	
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			Sample I Type	Matrix (W=water	m MS/N	DD_NM/8	DD_Caic	GFM_28	036FP_	TEX_GO									31.58 Sec. Jul	umber - T	- [l								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	G=grab) BT=1		Anno anno anno anno anno anno anno anno	3015	30151	300_0	3021E	[otal_									2004	otal		0	2	<u>;</u>				2	ł		
	M	M	Preservation Code:	Beckerer	19000			i in the second s	uch								-2	8.000		Д					¥.					1	1 June 1
SS10 (890-3642-1)	12/7/22	14 00 Mountain		Solid		×	×	×	×	×									1.27				1000002.4		000 and	Andrew Assoc		- 44 AV		J	
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Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/fests/matrix being analyzed the samples must be shipped back to the Eurofins Environ accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date return the signed Ch	: Testing South Centra ove for analysis/tests/ itral, LLC attention im	al LLC places t matrix being ar mediately If al	he ownership of m nalyzed the sampl I requested accred	nethod analyte es must be sh ditations are ci	e & acc lipped t	areditat back to o date	ion co the E	mplia urofir	Ince u Is Env	ipon o vironn d Cha	n our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the nmment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to thain of Custody artiesting to said compliance to Eurofins Environment Testino South Central 11.0)contr esting	act la I South Jy attr	boratc h Cer	ntral, I to sa	This	samp	hory of the sh	S Eur	ent is Iter ir	s fon s fon	ward	ed ur Is will	nder Ibe p Tes	chaii provi	n-of-	Any	r cha	nges	d a	
Possible Hazard Identification Unconfirmed					San	Sample Disposal (A fee	Disp	To Sal	l le Disposal (A f Return To Client	fee	may	Lõ	assessed if san	sed	H Se	mp	les a		eta	ine	0 0	Disposal Bullish	ž	than	1	1 month)	Ξ				
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																												7/90	170		

Page 20 of 22

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3642 List Number: 1 Creator: Stutzman, Amanda

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

Job Number: 890-3642-1 SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

Job Number: 890-3642-1 SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3642 List Number: 2 Creator: Teel, Brianna

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

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

Received by OCD: 8/17/2023 1:05:35 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/22/2022 12:14:04 PM

JOB DESCRIPTION

PLU 27 BD 161H SDG NUMBER Eddy County NM

JOB NUMBER

890-3643-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Received by OCD: 8/17/2023 1:05:35 PM

1

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 12/22/2022 12:14:04 PM

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

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

Laboratory Job ID: 890-3643-1 SDG: Eddy County NM

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Eurofins Carlsbad 12/22/2022

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 27 BD 161H

Job ID: 890-3643-1 SDG: Eddy County NM

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Qualifiers		3
GC VOA Qualifier	Qualifier Description	Δ
 F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VO	Α.	
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	8
HPLC/IC		
Qualifier	Qualifier Description	9
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
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)	

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

4

5

Job ID: 890-3643-1 SDG: Eddy County NM

Job ID: 890-3643-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: PLU 27 BD 161H

Narrative

Job Narrative 890-3643-1

Receipt

The samples were received on 12/13/2022 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3643-1), SS02 (890-3643-2), SS03 (890-3643-3) and SS04 (890-3643-4).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-41926/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-41926 and analytical batch 880-41982 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-41926 and analytical batch 880-41982 was outside control limits. Sample non-homogeneity is suspected.

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.

Released to Imaging: 2/19/2024 3:33:11 PM

Job ID: 890-3643-1 SDG: Eddy County NM

Client Sample ID: SS01

Project/Site: PLU 27 BD 161H

Date Collected: 12/07/22 11:45 Date Received: 12/13/22 13:30

Sample Depth: 0.5'

Client: Ensolum

Matrix: Solid

Analyte	Organic Comp Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene			0.00202	mg/Kg		12/20/22 15:23	12/21/22 16:56	1
Toluene	<0.00202		0.00202	mg/Kg		12/20/22 15:23	12/21/22 16:56	י 1
Ethylbenzene	<0.00202		0.00202	mg/Kg		12/20/22 15:23	12/21/22 16:56	י 1
m-Xylene & p-Xylene	<0.00202		0.00403	mg/Kg		12/20/22 15:23	12/21/22 16:56	' 1
o-Xylene	<0.00403		0.00202	mg/Kg		12/20/22 15:23	12/21/22 16:56	1
Xylenes, Total	<0.00202		0.00202			12/20/22 15:23	12/21/22 16:56	1
Aylenes, Iolai	<0.00403	0	0.00403	mg/Kg		12/20/22 15.25	12/21/22 10:50	I
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			12/20/22 15:23	12/21/22 16:56	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/20/22 15:23	12/21/22 16:56	1
Method: TAL SOP Total BTEX -	Total BTEX Cal	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	mg/Kg			12/22/22 08:57	1
Method: SW846 8015 NM - Dies	al Banga Organ		C ()					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			49.9	mg/Kg	<u>-</u>		12/19/22 15:03	1
	10.0	0	10.0	iiig/itg			12,10,22 10.00	
Method: SW846 8015B NM - Die								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/15/22 14:18	12/16/22 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		12/15/22 14:18	12/16/22 18:03	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 14:18	12/16/22 18:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			12/15/22 14:18	12/16/22 18:03	1
o-Terphenyl	102		70 - 130			12/15/22 14:18	12/16/22 18:03	1
Method: MCAWW 300.0 - Anion	s lon Chromato	aranhy - S	alubla					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.4		5.03	mg/Kg			12/20/22 14:10	1
lient Comple ID: SS02						Lah Car		2642 0
lient Sample ID: SS02						Lad San	nple ID: 890-	
ate Collected: 12/07/22 12:00							Matri	x: Solid
ample Depth: 0.5'	Organic Comp	ounds (GC))					
ample Depth: 0.5' Method: SW846 8021B - Volatile		ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
ate Received: 12/13/22 13:30 ample Depth: 0.5' Method: SW846 8021B - Volatile Analyte Benzene		Qualifier		Unit mg/Kg	<u>D</u>	Prepared 12/20/22 15:23	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/20/22 15:23	12/21/22 17:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/20/22 15:23	12/21/22 17:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/20/22 15:23	12/21/22 17:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/20/22 15:23	12/21/22 17:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/20/22 15:23	12/21/22 17:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/20/22 15:23	12/21/22 17:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			12/20/22 15:23	12/21/22 17:16	1

Matrix: Solid

Client Sample Results

Job ID: 890-3643-1 SDG: Eddy County NM

Lab Sample ID: 890-3643-2

Lab Sample ID: 890-3643-3

Matrix: Solid

Client Sample ID: SS02

Project/Site: PLU 27 BD 161H

Date Collected: 12/07/22 12:00 Date Received: 12/13/22 13:30

Client: Ensolum

Sample	Depth:	0.5'

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

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130			12/20/22 15:23	12/21/22 17:16	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	mg/Kg			12/22/22 08:57	1
Total TPH	<50.0	U	50.0	mg/Kg			12/19/22 15:03	Dil Fac
_				mg/Kg			12/19/22 15:03	1
Total TPH Method: SW846 8015B NM - D				mg/Kg			12/19/22 15:03	1
_)iesel Range Orga			mg/Kg Unit	D	Prepared	12/19/22 15:03	Dill Fac
_ Method: SW846 8015B NM - D)iesel Range Orga	nics (DRO) Qualifier	(GC)		D	Prepared 12/15/22 14:18		1
Method: SW846 8015B NM - D Analyte	Diesel Range Orga Result	nics (DRO) Qualifier	(GC) RL	Unit	D	·	Analyzed	1
Method: SW846 8015B NM - D Analyte Gasoline Range Organics	Diesel Range Orga Result	nics (DRO) Qualifier U	(GC) RL	Unit	D	·	Analyzed	1

Oll Range Organics (Over C28-C36)	<50.0 U	50.0	mg/Kg	12/15/22 14:18	12/16/22 18:25	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	123	70 - 130		12/15/22 14:18	12/16/22 18:25	1
o-Terphenyl	115	70 - 130		12/15/22 14:18	12/16/22 18:25	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualif	ier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.4	5.02	mg/Kg			12/20/22 14:15	1

Client Sample ID: SS03

Date Collected: 12/07/22 12:15 Date Received: 12/13/22 13:30 Sample Depth: 0.5'

Method: SW846 8021B - Volat Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		12/20/22 15:23	12/21/22 17:37	1
Toluene	<0.00200		0.00200	mg/Kg		12/20/22 15:23	12/21/22 17:37	1
Ethylbenzene	< 0.00200		0.00200	mg/Kg		12/20/22 15:23	12/21/22 17:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/20/22 15:23	12/21/22 17:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/22 15:23	12/21/22 17:37	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/20/22 15:23	12/21/22 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			12/20/22 15:23	12/21/22 17:37	1
1,4-Difluorobenzene (Surr)	103		70 - 130			12/20/22 15:23	12/21/22 17:37	1
- Method: TAL SOP Total BTEX	- Total BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/22/22 08:57	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/19/22 15:03	1

Eurofins Carlsbad

Matrix: Solid

Client Sample Results

Job ID: 890-3643-1 SDG: Eddy County NM

Lab Sample ID: 890-3643-3

Lab Sample ID: 890-3643-4

Client Sample ID: SS03

Project/Site: PLU 27 BD 161H

Date Collected: 12/07/22 12:15 Date Received: 12/13/22 13:30

Sample Depth: 0.5'

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/15/22 14:18	12/16/22 18:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		12/15/22 14:18	12/16/22 18:47	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 14:18	12/16/22 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			12/15/22 14:18	12/16/22 18:47	1
o-Terphenyl	95		70 - 130			12/15/22 14:18	12/16/22 18:47	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.6	4.98	mg/Kg			12/19/22 22:16	1

Client Sample ID: SS04

Date Collected: 12/07/22 12:30 Date Received: 12/13/22 13:30

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/22 15:23	12/21/22 17:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/22 15:23	12/21/22 17:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/22 15:23	12/21/22 17:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/20/22 15:23	12/21/22 17:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/22 15:23	12/21/22 17:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/20/22 15:23	12/21/22 17:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			12/20/22 15:23	12/21/22 17:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/20/22 15:23	12/21/22 17:57	1
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/22/22 08:57	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/19/22 15:03	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		12/15/22 14:18	12/16/22 19:09	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U *1	49.9	mg/Kg		12/15/22 14:18	12/16/22 19:09	1
						12/15/22 14:18	12/16/22 19:09	4
,	<49.9	U	49.9	mg/Kg		12/13/22 14.10	12/10/22 19:09	1
,	<49.9	U	49.9	mg/Kg		12/13/22 14.10	12/10/22 19:09	I
Oll Range Organics (Over C28-C36)	<49.9 %Recovery		49.9 Limits	mg/Kg		Prepared	Analyzed	Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane				mg/Kg				Dil Fac

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		Client	Sample Res	sults					
Client: Ensolum Project/Site: PLU 27 BD 161H							Job ID: 890 SDG: Eddy Cou		2
Client Sample ID: SS04 Date Collected: 12/07/22 12:30						Lab Sa	mple ID: 890- Matri	3643-4 ix: Solid	
Date Received: 12/13/22 13:30 Sample Depth: 0.5'									4
Method: MCAWW 300.0 - Anions, Analyte		graphy - Solu Qualifier	uble RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	497		24.8	mg/Kg		Fieparea	12/19/22 22:21	5	
									8
									9
									13

Job ID: 890-3643-1 SDG: Eddy County NM

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
22567-A-20-D MS	Matrix Spike	99	99	
2567-A-20-E MSD	Matrix Spike Duplicate	104	99	
3643-1	SS01	95	102	
643-2	SS02	101	99	
643-3	SS03	99	103	
643-4	SS04	105	102	
80-42329/1-A	Lab Control Sample	98	100	
D 880-42329/2-A	Lab Control Sample Dup	96	99	
880-42329/5-A	Method Blank	87	101	

Surrogate Legend

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

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

Matrix: Solid

Γ				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-3615-A-1-E MS	Matrix Spike	109	98		
890-3615-A-1-F MSD	Matrix Spike Duplicate	105	86		
890-3643-1	SS01	105	102		
890-3643-2	SS02	123	115		
890-3643-3	SS03	97	95		
890-3643-4	SS04	121	112		
LCS 880-41926/2-A	Lab Control Sample	98	111		
LCSD 880-41926/3-A	Lab Control Sample Dup	128	134 S1+		
MB 880-41926/1-A	Method Blank	112	115		
Surrogate Legend					

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

QC Sample Results

Job ID: 890-3643-1 SDG: Eddy County NM

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 42329

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Project/Site: PLU 27 BD 161H Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 42368

Client: Ensolum

Analysis Batch: 42368							Prep Batch	n: 42329
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/22 15:23	12/21/22 11:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/22 15:23	12/21/22 11:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/22 15:23	12/21/22 11:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/20/22 15:23	12/21/22 11:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/22 15:23	12/21/22 11:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/20/22 15:23	12/21/22 11:22	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			12/20/22 15:23	12/21/22 11:22	1
1,4-Difluorobenzene (Surr)	101		70 - 130			12/20/22 15:23	12/21/22 11:22	1

Lab Sample ID: LCS 880-42329/1-A Matrix: Solid

Analysis Batch: 42368

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09235		mg/Kg		92	70 - 130	
Toluene	0.100	0.08850		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.08780		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1828		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.08816		mg/Kg		88	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-42329/2-A

Matrix: Solid

Analysis Batch: 42368							Prep	Batch:	42329
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09353		mg/Kg		94	70 - 130	1	35
Toluene	0.100	0.08701		mg/Kg		87	70 - 130	2	35
Ethylbenzene	0.100	0.08572		mg/Kg		86	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1790		mg/Kg		90	70 - 130	2	35
o-Xylene	0.100	0.08705		mg/Kg		87	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-22567-A-20-D MS

Matrix: Solid

Analysis Batch: 42368									Prep	p Batch: 4232	9
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00200	U	0.101	0.08508		mg/Kg		84	70 - 130		
Toluene	<0.00200	U	0.101	0.07808		mg/Kg		77	70 - 130		

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Released to Imaging: 2/19/2024 3:33:11 PM

Project/Site: PLU 27 BD 161H

Client: Ensolum

Job ID: 890-3643-1 SDG: Eddy County NM

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

Lab Sample ID: 880-22567-A-2 Matrix: Solid	20-D MS									Client	Sample ID Prep 1	: Matrix Type: To	-
Analysis Batch: 42368											Prep	Batch:	42329
	Sample	Sam	ple	Spike	MS	MS					%Rec		
Analyte	Result	Qual	ifier	Added	Result	Qualif	ier Unit		D	%Rec	Limits		
Ethylbenzene	<0.00200	U F1		0.101	0.07305		mg/Kg			72	70 - 130		
m-Xylene & p-Xylene	< 0.00399	U		0.202	0.1518		mg/Kg			75	70 - 130		
o-Xylene	<0.00200	U F1		0.101	0.07296		mg/Kg			72	70 - 130		
	MS	мs											
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	99			70 - 130									
1,4-Difluorobenzene (Surr)	99			70 - 130									
Lab Sample ID: 880-22567-A-2	20-E MSD							Clier	nt Sa	mple ID:	Matrix Sp	oike Duj	plicate
Matrix: Solid											Prep 1	Type: To	otal/N/
Analysis Batch: 42368											Prep	Batch:	4232
-	Sample	Sam	ple	Spike	MSD	MSD					%Rec		RP
Analyte	Result	Qual	ifier	Added	Result	Qualif	ier Unit		D	%Rec	Limits	RPD	Lim
Benzene	<0.00200	U		0.0996	0.07864		mg/Kg		_	79	70 - 130	8	3
Toluene	<0.00200			0.0996	0.07159		mg/Kg			72	70 - 130	9	3
Ethylbenzene	<0.00200			0.0996	0.06671		mg/Kg			67	70 - 130	9	3
m-Xylene & p-Xylene	<0.00399			0.199	0.1402		mg/Kg			70	70 - 130	8	3
o-Xylene	<0.00200			0.0996	0.06795	F1	mg/Kg			68	70 - 130	7	3
	MSD	MSD)										
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	104			70 - 130									
1,4-Difluorobenzene (Surr)	99			70 - 130									
lethod: 8015B NM - Diese	el Range Or	rgar	ics (DR	O) (GC)									
Lab Sample ID: MB 880-41926	6/1- A									Client Sa	ample ID:		
Matrix: Solid												Type: To	
Analysis Batch: 41982											Prep	Batch:	4192
		MB	MB										
Analyte	R	esult	Qualifier		RL		Jnit	D	Pr	repared	Analyz	ed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<	<50.0	U	!	50.0	I	ng/Kg		12/1	5/22 14:18	12/16/22	08:33	
Diesel Range Organics (Over C10-C28)	<	<50.0	U		50.0	I	ng/Kg		12/1	5/22 14:18	12/16/22	08:33	
Oll Range Organics (Over C28-C36)	<	<50.0	U	:	50.0	ı	ng/Kg		12/1	5/22 14:18	12/16/22	08:33	
		ΜВ	МВ										
Surrogate	%Reco	overy	Qualifier	Limits	S				Pi	repared	Analyz	ed	Dil Fa
Surrogate 1-Chlorooctane	%Reco	very 112	Qualifier	<i>Limits</i>				-		r epared 5/22 14:18	Analyz 12/16/22		Dil Fa

Lab Sample ID: LCS 880-41926/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Analysis Batch: 41982 LCS LCS Spike

Analyte	Added	Result C	Qualifier Uni	D	%Rec	Limits	
Gasoline Range Organics	1000	918.4	mg/	Kg	92	70 - 130	
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	903.8	mg/	Kg	90	70 - 130	
C10-C28)							

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Prep Type: Total/NA

%Rec

Prep Batch: 41926

Lab Sample ID: LCS 880-41926/2-A

QC Sample Results

Limits

70 - 130

70 - 130

Project/Site: PLU 27 BD 161H

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 41982

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

LCS LCS %Recovery Qualifier

98

	1
Job ID: 890-3643-1 SDG: Eddy County NM	2
Olivert Complet Dut als Control Comple	3
Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 41926	4
Trop Daten. 41020	5
	6
	7

-											
Lab Sample ID: LCSD 880-41	926/3-A					Clier	nt Sam	ple ID:	Lab Contro	I Sample	e Dur
Matrix: Solid										· Type: Tot	
Analysis Batch: 41982										Batch:	
······, •···			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Gasoline Range Organics			1000	1055		mg/Kg		105	70 - 130	14	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	1147	*1	mg/Kg		115	70 - 130	24	20
C10-C28)											
	1050	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane		Quaimer	70 - 130								
o-Terphenyl		S1+	70 - 130 70 - 130								
5-reiphenyi	134	31+	70 - 130								
Lab Sample ID: 890-3615-A-1	-F MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										Type: Tot	
Analysis Batch: 41982										Batch:	
Analysis Baton. 41002	Sample	Sample	Spike	MS	MS				%Rec	Bateri.	41520
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U F2	999	1283	quamor	mg/Kg		128	70 - 130		
(GRO)-C6-C10	-00.0	012	000	1200		mg/rtg		120	10-100		
Diesel Range Organics (Over	<50.0	U *1	999	1096		mg/Kg		110	70 - 130		
C10-C28)											
	МС	MS									
Sumo moto	MS % Decevery		Lincita								
Surrogate 1-Chlorooctane	% <i>Recovery</i> 109	Qualifier	Limits 70 - 130								
	98		70 - 130 70 - 130								
o-Terphenyl	98		70 - 130								
Lab Sample ID: 890-3615-A-1						CI	iont S	amnlo IF): Matrix Sp	oike Dun	licate
Matrix: Solid										Type: Tot	
Analysis Batch: 41982										Batch:	
Analysis Batch. 41502	Sample	Sample	Spike	MSD	MSD				%Rec	Bateri.	RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0		997	988.5		mg/Kg		99	70 - 130	26	20
(GRO)-C6-C10	\$00.0	012	551	500.0	12	iiig/itg		00	70-100	20	20
Diesel Range Organics (Over	<50.0	U *1	997	942.5		mg/Kg		95	70 - 130	15	20
C10-C28)											
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								

QC Sample Results

Job ID: 890-3643-1 SDG: Eddy County NM

Project/Site: PLU 27 BD 161H

Client: Ensolum

Lab Sample ID: MB 880-41923/1-A												
									Client	Sample ID:		
Matrix: Solid										Prep	Type: So	oluble
Analysis Batch: 42049												
	MB											
Analyte		Qualifier		RL		Unit		<u>D</u>	Prepared	Analy		Dil Fac
Chloride	<5.00	U		5.00		mg/K	g			12/19/22	21:05	1
Lab Sample ID: LCS 880-41923/2-A								Clie	nt Sampl	e ID: Lab C	ontrol Sa	ample
Matrix: Solid										Prep	Type: Se	oluble
Analysis Batch: 42049												
			Spike		LCS	LCS				%Rec		
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250		235.6		mg/Kg		94	90 - 110		
Lab Sample ID: LCSD 880-41923/3-A							CI	iont Sa		Lab Contro	ol Samol	o Dun
Matrix: Solid							0.		imple ib.		Type: So	
Analysis Batch: 42049										Fieh	Type. S	oluble
Analysis Daton. 42045			Spike			LCSD				%Rec		RPD
Analyte			Added			Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250		237.1	Guainor	mg/Kg		95	90 - 110	1	20
			200		20111					001110	•	20
Lab Sample ID: 890-3643-4 MS										Client Sa	mple ID:	SS04
Matrix: Solid											Type: Se	
Analysis Batch: 42049												
	le Sam	ple	Spike		MS	MS				%Rec		
Analyte Res	ult Qua	lifier	Added		Result	Qualifier	Unit	D	%Rec	Limits		
Chloride 4	97		1240		1620		mg/Kg		91	90 - 110		
Lab Sample ID: 890-3643-4 MSD										Client Sa	mple ID:	SS04
Matrix: Solid											Type: S	
Analysis Batch: 42049											1	
	le San	ple	Spike		MSD	MSD				%Rec		RPD
Analyte Res	ult Qua	lifier	Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1.00												

QC Association Summary

Client: Ensolum Project/Site: PLU 27 BD 161H

Job ID: 890-3643-1 SDG: Eddy County NM

GC VOA

Prep Batch: 42329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3643-1	SS01	Total/NA	Solid	5035	
890-3643-2	SS02	Total/NA	Solid	5035	
890-3643-3	SS03	Total/NA	Solid	5035	
890-3643-4	SS04	Total/NA	Solid	5035	
MB 880-42329/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42329/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42329/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22567-A-20-D MS	Matrix Spike	Total/NA	Solid	5035	
880-22567-A-20-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 42368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3643-1	SS01	Total/NA	Solid	8021B	42329
890-3643-2	SS02	Total/NA	Solid	8021B	42329
890-3643-3	SS03	Total/NA	Solid	8021B	42329
890-3643-4	SS04	Total/NA	Solid	8021B	42329
MB 880-42329/5-A	Method Blank	Total/NA	Solid	8021B	42329
LCS 880-42329/1-A	Lab Control Sample	Total/NA	Solid	8021B	42329
LCSD 880-42329/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42329
880-22567-A-20-D MS	Matrix Spike	Total/NA	Solid	8021B	42329
880-22567-A-20-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42329

Analysis Batch: 42478

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3643-1	SS01	Total/NA	Solid	Total BTEX	
890-3643-2	SS02	Total/NA	Solid	Total BTEX	
890-3643-3	SS03	Total/NA	Solid	Total BTEX	
890-3643-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3643-1	SS01	Total/NA	Solid	8015NM Prep	
890-3643-2	SS02	Total/NA	Solid	8015NM Prep	
890-3643-3	SS03	Total/NA	Solid	8015NM Prep	
890-3643-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-41926/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41926/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41926/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3615-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3615-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3643-1	SS01	Total/NA	Solid	8015B NM	41926
890-3643-2	SS02	Total/NA	Solid	8015B NM	41926
890-3643-3	SS03	Total/NA	Solid	8015B NM	41926
890-3643-4	SS04	Total/NA	Solid	8015B NM	41926
MB 880-41926/1-A	Method Blank	Total/NA	Solid	8015B NM	41926
LCS 880-41926/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41926

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QC Association Summary

Client: Ensolum Project/Site: PLU 27 BD 161H

GC Semi VOA (Continued)

Analysis Batch: 41982 (Continued)

Lab Sample ID LCSD 880-41926/3-A	Client Sample ID Lab Control Sample Dup	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 41926
890-3615-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	41926
890-3615-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41926
Analysis Batch: 42188					

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3643-1	SS01	Total/NA	Solid	8015 NM	
890-3643-2	SS02	Total/NA	Solid	8015 NM	
890-3643-3	SS03	Total/NA	Solid	8015 NM	
890-3643-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41923

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3643-1	SS01	Soluble	Solid	DI Leach	
890-3643-2	SS02	Soluble	Solid	DI Leach	
890-3643-3	SS03	Soluble	Solid	DI Leach	
890-3643-4	SS04	Soluble	Solid	DI Leach	
MB 880-41923/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3643-4 MS	SS04	Soluble	Solid	DI Leach	
890-3643-4 MSD	SS04	Soluble	Solid	DI Leach	

Analysis Batch: 42049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3643-1	SS01	Soluble	Solid	300.0	41923
890-3643-2	SS02	Soluble	Solid	300.0	41923
890-3643-3	SS03	Soluble	Solid	300.0	41923
890-3643-4	SS04	Soluble	Solid	300.0	41923
MB 880-41923/1-A	Method Blank	Soluble	Solid	300.0	41923
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	300.0	41923
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41923
890-3643-4 MS	SS04	Soluble	Solid	300.0	41923
890-3643-4 MSD	SS04	Soluble	Solid	300.0	41923

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Job ID: 890-3643-1 SDG: Eddy County NM

Job ID: 890-3643-1 SDG: Eddy County NM

Lab Sample ID: 890-3643-1 Matrix: Solid

Client Sample ID: SS01 Date Collected: 12/07/22 11:45 Date Received: 12/13/22 13:30

Project/Site: PLU 27 BD 161H

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	42329	12/20/22 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42368	12/21/22 16:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42478	12/22/22 08:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42188	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41926	12/15/22 14:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 18:03	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42049	12/20/22 14:10	СН	EET MID

Client Sample ID: SS02

Date Collected: 12/07/22 12:00

Date Received: 12/13/22 13:30

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	42329	12/20/22 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42368	12/21/22 17:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42478	12/22/22 08:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42188	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41926	12/15/22 14:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 18:25	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42049	12/20/22 14:15	СН	EET MID

Client Sample ID: SS03

Date Collected: 12/07/22 12:15

Date Received: 12/13/22 13:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42329	12/20/22 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42368	12/21/22 17:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42478	12/22/22 08:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42188	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41926	12/15/22 14:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 18:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42049	12/19/22 22:16	СН	EET MID

Client Sample ID: SS04 Date Collected: 12/07/22 12:30 Date Received: 12/13/22 13:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	42329	12/20/22 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42368	12/21/22 17:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42478	12/22/22 08:57	AJ	EET MID

Eurofins Carlsbad

Page 213 of 310

Lab Sample ID: 890-3643-2 Matrix: Solid

Lab Sample ID: 890-3643-3

Lab Sample ID: 890-3643-4

Matrix: Solid

5 6

9

Matrix: Solid

Job ID: 890-3643-1

Matrix: Solid

SDG: Eddy County NM

Lab Sample ID: 890-3643-4

Lab Chronicle

Client: Ensolum Project/Site: PLU 27 BD 161H

Client Sample ID: SS04

Date Collected: 12/07/22 12:30 Date Received: 12/13/22 13:30

	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			42188	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41926	12/15/22 14:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 19:09	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42049	12/19/22 22:21	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 2/19/2024 3:33:11 PM

		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: PLU 27 BI	D 161H			Job ID: 890-3643-1 SDG: Eddy County NM	2
Laboratory: Eurofi	ns Midland				
Unless otherwise noted, all a	nalytes for this laboratory	y were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
Texas		NELAP	T104704400-22-25	06-30-23	-
The following analytes	are included in this repor	t, but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not off					
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
		Cond			
					8
					9
					10
					13

Eurofins Carlsbad

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Method Summary

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3643-1 SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
3021B	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
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Client: Ensolum Project/Site: PLU 27 BD 161H Job ID: 890-3643-1 SDG: Eddy County NM

b Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
0-3643-1	SS01	Solid	12/07/22 11:45	12/13/22 13:30	0.5'	-
0-3643-2	SS02	Solid	12/07/22 12:00	12/13/22 13:30	0.5'	
0-3643-3	SS03	Solid	12/07/22 12:15	12/13/22 13:30	0.5'	ł
0-3643-4	SS04	Solid	12/07/22 12:30	12/13/22 13:30	0.5'	
						1
						- 2

		- Period			Ho	bbs, NM (5	75) 392-755	0, Carlsbad	Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199	3-3199					1 of
												~	Work Order	Work Order Comments	-
Company Name	Ensolum, LLC				Company Name:		XTO Energy, Inc	y, Inc.			Program	: UST/PST	Program: UST/PST 🗌 PRP 🗍 Brownfields 🗌 RRC 🗌	ownfields	RRC Superfund
	3122 National parks Hwy	oarks Hwy			Address		3104 E. Green Street	een Street			State of Project:	Project:	ł		
to ZIP:	Carlsbad, NM 88220	38220			City, State ZIP		Carlsbad, NM 88220	VM 88220			Reporting	g Level II	Reporting Level II Level III PST/UST TRRP	PST/UST	TRRP Level IVL
	9898540852			Email	bbelil@ensolum.com	olum.con	n				Deliverat	Deliverables EDD	AD	ADaPT	Other
Project Name:	PLU 2	PLU 27 BD 161H	I	Turn	Turn Around				A	ANALYSIS REQUEST	QUEST			Pre	Preservative Codes
Project Number	03E	03E1558089		Routine	Rush	Code								None: NO	0 DI Water: H ₂ O
Project Location:	EDDY C	EDDY COUNTY, NM		Due Date:							_			Cool: Cool	
Sampler's Name	Chr	Chris Brown		TAT starts the	TAT starts the day received by	Vo			-			1		HCL: HC	
PO #				the lab, if rec	the lab, if received by 4-30pm									H2S04 H2	12 NaOH: Na
SAMPLE RECEIPT	PT Temp Blank	\rightarrow	Yes No	Wet Ice:	(Yes No	nete	.0)							H3PO4 HP	HP
Samples Received Intact	itact XYes	No TH	Thermometer ID		IN MAN	arar	300							NaHSO4 NABIS	NABIS
Cooler Custody Seals:	S: Yet No	NIA	Correction Factor		20.2	P	PA					=		Na202U2	Na20203 Naco3
Sample Custody Seals	Yes	GHA	Temperature Reading	Reading	XX			1	890-3643	890-3643 Chain of Custody	stody			Zn Aceta	Zn Acetate+NaOH: Zn
Total Containers		0	Corrected Temperature	nperature	3.0			802	_	-	_	_		NaOnty	NauntAscoluic Adul SAFO
Sample Identification	tification	Matrix	Date Sampled	Time Sampled	Depth Grab/ Comp	h/ # of np Cont	CHLOF	BTEX (Sa	Sample Comments
SS01	1	S	12/7/2022	1145	0.5' Grab/	ab/ 1	××	×						Cost	Cost Center: 1666961001
SS02	2	ŝ	12/7/2022	1200	0.5' Grab/	3b/ 1	××	×							
SOSS	3	S	12/7/2022	1215	0.5' Grab/	1b/ 1	××	×							
SS04	4	S	12/7/2022	1230	0.5' Grab/	ab/ 1	××	×							
														-	Incident Number:
					_									ŗ	NAPP2218236445
Total 200.7 / 6010	10 200.8 / 6020:	020:		BRCRA 13PPM	Texas	0	As Ba	20	Ca Ci	Cu Ph Mn Mn	o Mg Mn Mo Ni K	Mo Ni K S	Se Ag SiO ₂ Ha: 163	Na Sr TI	g SiO ₂ Na Sr TI Sn U V Zn Ha: 1631/245.1/7470/7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractore. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service.	o will be liable only f	uishment of a or the cost o	samples const f samples and	itutes a valid pu shall not assun	rchase order fro he any responsit	om client co bility for any	mpany to Eur	ofins Xenco, penses Incur	its affiliates and red by the clien	d subcontractors It if such losses	. It assigns sta are due to circu	indard terms imstances bey	The signs standard terms and conditions are due to circumstances beyond the control and the process index provided to appreciate the standard terms and the standard terms and the standard terms are standard to appreciate the standard terms are standard terms ar	.	
Relinquished by: (Signature)	: (Signature)		Received	Received by: (Signature)	ure)		Date/Time		Relinquish	Relinquished by: (Signature)	ature)	Receiv	Received by: (Signature)	ature)	Date/Time
2		An	and	R	tit	121	2/15/20	212							
3			9			-									-

Chain of Custody

Received by OCD: 8/17/2023 1:05:35 PM

Custody Seals Intact. Custody Seal No	Relinquished by	Relinquished by		Empty Kit Relinquished by	Deliverable Requested I, II, III IV Other (specify)	Possible Hazard Identification Unconfirmed	Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC					SS04 (890-3643-4)	SS03 (890-3643-3)	SS02 (890-3643-2)	SS01 (890-3643-1)		Sample Identification - Client ID (Lab ID)	Sie	Project Name PLU 27 BD 161H	Email	Phone: 432-704-5440(Tel)	State Zip: TX 79701	City Midland	Address 1211 W Flonda Ave, ,	Eurofins Environment Testing South Centr	Shipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St Carlsbad, NM 88220 Phone 575-988-3199 Fax. 575-988-3199	Eurofins Carlsbad
	Date/Time [.]	Date/Time:			Primary Deliverable Rank.		tent Testing South Centri above for analysis/tests/ Central, LLC attention imi					12/7/22	12/7/22	12/7/22	12/7/22	X	Sample Date	SSOW#:	Project #: 89000093	WO #	PO#		TAT Requested (days):	Due Date Requested 12/19/2022		Phone.	Sampler	0	1
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	Company	Company	Company				f method analy ples must be preditations are					Solid	Solid	Solid	Solid	in S	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Alr)									E-Mail Jessi	Lab PM Krame	ody R	
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Cooler Temperature(s) °C and Other Remarks:	Received by	Received by		\uparrow	Special Instructions/QC Requirements	p ie Disposal (A f Return To Client	ditation (ok to the late, retu	$\left - \right $	+		$\left \right $	× ×	× ×	× ×	×		8015MOD_NM/6				, i 4(1		\neg		Texas	er@et.	8	a	
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Ver 06/08/2021

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

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Chain of Custody Record



🔅 eurofins

Phone 575-988-3199 Fax: 575-988-3199												N.		lā.									Envir	onme	nt Te	Environment Testing
Client Information (Sub Contract Lab)	Sampler			Lab PM [:] Kramer, Jessica	er. Jes	sica							Carrier Tracking No(s)	r Trac	king	No(s)	-			8 8	COC No:					
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Company Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	P - Te	Requi	ned (S	ee not	e):										8 <u>5</u>	Job #: 800-36/3-1					
Address 1211 W Florida Ave, ,	Due Date Requested 12/19/2022	đ							Analy	alvs	/sis	Requested	ies	ē	1					2	Preservation Codes	: 8				
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Possible Hazard Identification					Sau	Sample Disposal (A fee	Disp	osal	(Af	ee n	ay a	le as	ses	sed	f sa	<u>a</u>	es a	ren	etaii	Ped	may be assessed if samples are retained longer than 1 month)		onth			
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Custody Seals Intact: ∆ Yes ∆ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Ver 06/08/2021

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Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3643 List Number: 1 Creator: Stutzman, Amanda

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

Job Number: 890-3643-1 SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

Job Number: 890-3643-1 SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3643 List Number: 2 Creator: Teel, Brianna

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

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

Received by OCD: 8/17/2023 1:05:35 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/27/2022 8:39:00 AM

JOB DESCRIPTION

PLU 27 Brushy Draw 161H SDG NUMBER 03E11558091

JOB NUMBER

890-3646-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Received by OCD: 8/17/2023 1:05:35 PM

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Job Notes

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

Authorization

RAMER

Generated 12/27/2022 8:39:00 AM

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

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

SDG: 03E11558091

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Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin) Most Probable Number

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

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

Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry)

DL

DLC EDL

LOD

LOQ MCL

MDA

MDC MDL

ML

MPN MQL

NC

ND

NEG

POS

PQL PRES

QC

RER

RPD

TEF

TEQ

TNTC

RL

DL, RA, RE, IN

		1 480 220 07 0	
	Definitions/Glossary		
Client: Ensolu Project/Site: F	um PLU 27 Brushy Draw 161H	Job ID: 890-3646-1 SDG: 03E11558091	2
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	Α		5
Qualifier	Qualifier Description		
F2	MS/MSD RPD exceeds control limits		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		8
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		9
Glossary			40
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		4
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		

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

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Project/Site: PLU 27 Brushy Draw 161H

4

Job ID: 890-3646-1 SDG: 03E11558091

Job ID: 890-3646-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3646-1

Receipt

The sample was received on 12/13/2022 3:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 9.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: PH06B (W) (890-3646-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41930 and analytical batch 880-41982 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-41930 and analytical batch 880-41982 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41925 and analytical batch 880-42330 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: PH06B (W) (890-3646-1), (890-3644-A-11-A), (890-3644-A-11-B MS) and (890-3644-A-11-C MSD).

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

Job ID: 890-3646-1 SDG: 03E11558091

Client Sample ID: PH06B (W)

Project/Site: PLU 27 Brushy Draw 161H

Date Collected: 12/12/22 13:50 Date Received: 12/13/22 15:30

Sample Depth: 8'

Client: Ensolum

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/22/22 10:23	12/23/22 21:02	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/22/22 10:23	12/23/22 21:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/22/22 10:23	12/23/22 21:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/22/22 10:23	12/23/22 21:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/22/22 10:23	12/23/22 21:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/22/22 10:23	12/23/22 21:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			12/22/22 10:23	12/23/22 21:02	1
1,4-Difluorobenzene (Surr)	84		70 - 130			12/22/22 10:23	12/23/22 21:02	1
Method: TAL SOP Total BTEX - 1	Fotal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	mg/Kg			12/24/22 08:27	1
: Method: SW846 8015 NM - Diese				Unit		Property	Applyzed	Dil Eso
Method: SW846 8015 NM - Diese Analyte		Qualifier	GC) 	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/19/22 15:03	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier	(GC)			<u> </u>	12/19/22 15:03	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <50.0 sel Range Orga Result	Qualifier U Inics (DRO) Qualifier	RL 50.0 (GC) RL	mg/Kg Unit	D	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0	Qualifier U Inics (DRO) Qualifier	(GC)	mg/Kg		<u> </u>	12/19/22 15:03	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result <50.0 Result <50.0	Qualifier U Qualifier Qualifier U F2	RL 50.0 (GC) RL	mg/Kg Unit mg/Kg		Prepared 12/15/22 14:22	Analyzed 12/16/22 21:00	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result	Qualifier U Qualifier Qualifier U F2	RL 50.0 (GC) RL 50.0	mg/Kg Unit		Prepared	12/19/22 15:03	1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0 Result <50.0	Qualifier U Qualifier U F2 U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 12/15/22 14:22	Analyzed 12/16/22 21:00	1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U Qualifier U F2 U U	RL 50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:22 12/15/22 14:22	Analyzed 12/16/22 21:00 12/16/22 21:00	1 <u>Dil Fac</u> 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U Qualifier U F2 U U	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22	Analyzed 12/19/22 15:03 Analyzed 12/16/22 21:00 12/16/22 21:00 12/16/22 21:00	1 Dil Fac 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U Qualifier U F2 U U	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 Prepared	Analyzed 12/19/22 15:03 Analyzed 12/16/22 21:00 12/16/22 21:00 12/16/22 21:00 Analyzed	1 Dil Fac 1 1 1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0	Qualifier U Qualifier U F2 U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 50.0 70.130 70.130	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 Prepared 12/15/22 14:22	Analyzed 12/19/22 15:03 Analyzed 12/16/22 21:00 12/16/22 21:00 12/16/22 21:00 Analyzed 12/16/22 21:00	1 Dil Fac 1 1 1 1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anions Analyte	Result <50.0	Qualifier U Qualifier U F2 U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 50.0 70.130 70.130	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 Prepared 12/15/22 14:22	Analyzed 12/19/22 15:03 Analyzed 12/16/22 21:00 12/16/22 21:00 12/16/22 21:00 Analyzed 12/16/22 21:00	1 Dil Fac 1 1 1 1 Dil Fac 1

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Lab Sample ID: 890-3646-1 Matrix: Solid

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3646-1	PH06B (W)	115	84	
890-3646-1 MS	PH06B (W)	120	85	
890-3646-1 MSD	PH06B (W)	111	87	
LCS 880-42486/1-A	Lab Control Sample	107	85	
LCS 880-42486/2-A	Lab Control Sample	111	86	
LCSD 880-42483/2-A	Lab Control Sample Dup	94	95	
MB 880-42420/5-A	Method Blank	97	90	
MB 880-42483/5-A	Method Blank	101	86	
MB 880-42486/5-A	Method Blank	105	76	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
3646-1	PH06B (W)	90	89	
646-1 MS	PH06B (W)	98	88	
46-1 MSD	PH06B (W)	84	78	
0-41930/2-A	Lab Control Sample	114	122	
80-41930/3-A	Lab Control Sample Dup	114	120	
80-41930/1-A	Method Blank	133 S1+	131 S1+	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

OTPH = 0-Terphenyl

SDG: 03E11558091

Job ID: 890-3646-1

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Prep Type: Total/NA

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QC Sample Results

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42420/5-	Α									Client Sa	mple ID: N		
Matrix: Solid											Prep T	ype: To	otal/NA
Analysis Batch: 42466											Prep	Batch:	: 42420
		MB	МВ										
Analyte	Re	sult	Qualifier	R	۲L.	Unit		D	Pi	repared	Analyze	ed	Dil Fac
Benzene	<0.00	200	U	0.0020	00	mg/k	ζg		12/2	1/22 12:40	12/22/22 2	2:51	1
Toluene	<0.00	200	U	0.0020	00	mg/K	ίg		12/2	1/22 12:40	12/22/22 2	2:51	1
Ethylbenzene	<0.00	200	U	0.0020	00	mg/K	ίg		12/2	1/22 12:40	12/22/22 2	2:51	1
m-Xylene & p-Xylene	<0.00	400	U	0.0040	00	mg/K	ζg		12/2	1/22 12:40	12/22/22 2	2:51	1
o-Xylene	<0.00	200	U	0.0020	00	mg/K	ίg		12/2	1/22 12:40	12/22/22 2	2:51	1
Xylenes, Total	<0.00	400	U	0.0040	00	mg/k	(g		12/2	1/22 12:40	12/22/22 2	2:51	1
		ΜВ	МВ										
Surrogate	%Reco	/ery	Qualifier	Limits					Pi	repared	Analyz	ed	Dil Fac
4-Bromofluorobenzene (Surr)		97		70 - 130					12/2	1/22 12:40	12/22/22 2	2:51	1
1,4-Difluorobenzene (Surr)		90		70 - 130					12/2	1/22 12:40	12/22/22 2	2:51	1
Lab Sample ID: MB 880-42483/5-	Α									Client Sa	mple ID: I	/lethod	l Blank
Matrix: Solid											Prep T		
Analysis Batch: 42466													42483
		ΜВ	МВ										
Analyte	Re	sult	Qualifier	R	۲L	Unit		D	Pi	repared	Analyze	ed	Dil Fac
Benzene	<0.00			0.0020		mg/K	(q	—		2/22 09:22	12/23/22 0		1
Toluene	<0.00			0.0020		mg/K	-			2/22 09:22	12/23/22 0		1
Ethylbenzene	<0.00			0.0020		mg/K	-			2/22 09:22	12/23/22 0		1
m-Xylene & p-Xylene	<0.00			0.0040		mg/k				2/22 09:22	12/23/22 0		
o-Xylene	<0.00			0.0020		mg/k	-			2/22 09:22	12/23/22 0		1
Xylenes, Total	<0.00			0.0040		mg/K	-			2/22 09:22	12/23/22 0		1
	-0.00	400	0	0.0040		iiig/ii	9		12/21	2/22 00.22	12/20/22 0	0.00	
		MВ	МВ										
Surrogate	%Reco	-	Qualifier	Limits	_					repared	Analyz		Dil Fac
4-Bromofluorobenzene (Surr)		101		70 - 130						2/22 09:22	12/23/22 (1
1,4-Difluorobenzene (Surr)		86		70 - 130					12/2	2/22 09:22	12/23/22 (9:36	1
Lab Sample ID: LCSD 880-42483	/ 2-A						CI	ient	Sam	ple ID: La	ab Contro	Samp	le Dup
Matrix: Solid											Prep T	ype: To	otal/NA
Analysis Batch: 42466											Prep	Batch:	: 42483
				Spike	LCSD	LCSD					%Rec		RPD
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene				0.100	0.08380		mg/Kg			84	70 - 130	20	35
Toluene				0.100	0.07951		mg/Kg			80	70 - 130	19	35
Ethylbenzene				0.100	0.07270		mg/Kg			73	70 - 130	21	35
m-Xylene & p-Xylene				0.200	0.1547		mg/Kg			77	70 - 130	22	35
o-Xylene				0.100	0.07994		mg/Kg			80	70 - 130	20	35
	LCSD	LCSI	2										
Surrogate	%Recovery	Qual	ifier	Limits									
4-Bromofluorobenzene (Surr)	94	-		70 - 130									
1,4-Difluorobenzene (Surr)	95			70 - 130									
Lab Sample ID: MB 880-42486/5-	Δ									Client Sa	mple ID: I	/lethod	Blank
											Prep T		
Matrix: Solid													: 42486
Matrix: Solid Analysis Batch: 42466													
Analysis Batch: 42466		MR	мв								Prep	Datch.	
	Pa	MB sult	MB Qualifier		RL.	Unit		D	P	repared	Analyzo		Dil Fac

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5

6 7 8

Job ID: 890-3646-1

SDG: 03E11558091

QC Sample Results

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

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

Lab Sample ID: MB 880-42486/5	- A									Client Sa	mple ID: Metho	
Matrix: Solid											Prep Type:	Total/N/
Analysis Batch: 42466											Prep Batc	h: <mark>424</mark> 8
		MB	MB									
Analyte	Res	sult	Qualifier	R	۲L	U	nit	D	Р	repared	Analyzed	Dil Fa
Toluene	<0.002	200	U	0.0020	00	m	g/Kg		12/2	2/22 10:23	12/23/22 20:41	
thylbenzene	<0.002	200	U	0.0020	00	m	g/Kg		12/2	2/22 10:23	12/23/22 20:41	
n-Xylene & p-Xylene	<0.004	400	U	0.0040	0	m	g/Kg		12/2	2/22 10:23	12/23/22 20:41	
-Xylene	<0.002	200	U	0.0020	00	m	g/Kg		12/2	2/22 10:23	12/23/22 20:41	
(ylenes, Total	< 0.004	400	U	0.0040	00	m	g/Kg		12/2	2/22 10:23	12/23/22 20:41	
		ΜВ	МВ									
Surrogate	%Recov	very	Qualifier	Limits					Р	repared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		105		70 - 130					12/2	2/22 10:23	12/23/22 20:41	
,4-Difluorobenzene (Surr)		76		70 - 130					12/2	2/22 10:23	12/23/22 20:41	
_ab Sample ID: LCS 880-42486/	1-Δ								lient	Sample	ID: Lab Control	Sampl
Aatrix: Solid											Prep Type:	
Analysis Batch: 42466											Prep Batc	
				Spike	LCS	LCS					%Rec	
nalyte				Added	Result	Qualifie	er Unit		D	%Rec	Limits	
Benzene				0.100	0.09622		mg/Kg			96	70 - 130	
oluene				0.100	0.1007		mg/Kg			101	70 - 130	
thylbenzene				0.100	0.1028		mg/Kg			103	70 - 130	
n-Xylene & p-Xylene				0.200	0.2274		mg/Kg			114	70 - 130	
-Xylene				0.100	0.1119		mg/Kg			112	70 - 130	
	LCS	LCS										
Surrogate	%Recovery	Qual	lifier	Limits								
-Bromofluorobenzene (Surr)	107			70 - 130								
1,4-Difluorobenzene (Surr)	85			70 - 130								
Lab Sample ID: LCS 880-42486/	2-4								lient	Sample	ID: Lab Control	Sampl
Matrix: Solid										Campio	Prep Type:	
Analysis Batch: 42466											Prep Batc	
				Spike	LCS	LCS					%Rec	
Analyte				Added	Result	Qualifie	er Unit		D	%Rec	Limits	
Benzene				0.100	0.09788		mg/Kg			98	70 - 130	
oluene				0.100	0.1020		mg/Kg			102	70 - 130	
thylbenzene				0.100	0.1044		mg/Kg			104	70 - 130	
n-Xylene & p-Xylene				0.200	0.2327		mg/Kg			116	70 - 130	
p-Xylene				0.100	0.1151		mg/Kg			115	70 - 130	
							0					
	LCS		lifian	1 ins 14-								
Surrogate		Qual	inier	Limits								
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr)	111 86			70 ₋ 130 70 ₋ 130								
_ab Sample ID: 890-3646-1 MS										Client	Sample ID: PH	106B (V
Matrix: Solid											Prep Type:	Total/N
Analysis Batch: 42466											Prep Batc	h: <mark>424</mark> 8
	0	Com	nlo	Spike	МС	MS					%Rec	
	Sample	Sam	pic	Spike	NI3	INI O					/11100	

Eurofins Carlsbad

Job ID: 890-3646-1 SDG: 03E11558091 Project/Site: PLU 27 Brushy Draw 161H

Client: Ensolum

Job ID: 890-3646-1 SDG: 03E11558091

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

Lab Sample ID: 890-3646-1 MS	i								Clie	ent Sample I	D: PHO	6 <mark>B (W</mark>
Matrix: Solid										Prep 1	Type: To	tal/NA
Analysis Batch: 42466										Prep	Batch:	4248
	Sample	Sample	e	Spike	MS	MS				%Rec		
Analyte	Result	Qualifie	er	Added	Result	Qualifier	Unit		D %Rec	Limits		
m-Xylene & p-Xylene	<0.00402	U		0.200	0.2296		mg/Kg		115	70 - 130		
o-Xylene	<0.00201	U		0.0998	0.1123		mg/Kg		112	70 - 130		
	MS	MS										
Surrogate	%Recovery	Qualifi	er	Limits								
4-Bromofluorobenzene (Surr)	120			70 - 130								
1,4-Difluorobenzene (Surr)	85			70 - 130								
Lab Sample ID: 890-3646-1 MS	D								Clie	ent Sample I	D: PHO	5B (W
Matrix: Solid											Type: To	
Analysis Batch: 42466											Batch:	
	Sample	Sample	e	Spike	MSD	MSD				%Rec		RP
Analyte	Result	Qualifi	er	Added	Result	Qualifier	Unit		D %Rec	Limits	RPD	Lim
Benzene	<0.00201	U		0.0990	0.08250		mg/Kg		83	70 - 130	1	3
Toluene	<0.00201	U		0.0990	0.08671		mg/Kg		88	70 - 130	8	3
Ethylbenzene	<0.00201	U		0.0990	0.08708		mg/Kg		88	70 - 130	17	3
m-Xylene & p-Xylene	<0.00402	U		0.198	0.1918		mg/Kg		97	70 - 130	18	3
o-Xylene	<0.00201	U		0.0990	0.09425		mg/Kg		95	70 - 130	17	3
	MSD	MSD										
Surrogate	%Recovery	Qualifi	er	Limits								
4-Bromofluorobenzene (Surr)	111			70 - 130								
1,4-Difluorobenzene (Surr)	87			70 - 130								
lethod: 8015B NM - Diese	I Range Or	ganio	cs (DR	(GC)								
Lab Sample ID: MB 880-41930/	4 6	_							Client	Comple ID	Mothod	Plan
Lab Sample ID. MB 660-41930/ Matrix: Solid	I-A								Client	Sample ID:		
											Type: To	
Analysis Batch: 41982		мв м	в							Prep	Batch:	4193
Analyte	Pa	esult Q			RL	Unit		D	Prepared	Analyz	od	Dil Fa
Gasoline Range Organics		50.0 U			50.0	0111 mg/k		_	12/15/22 14:2			DIIFa
(GRO)-C6-C10		JU.U U			00.0	nig/r	าช		12/10/22 14.2		10.00	
Diesel Range Organics (Over	<	50.0 U			50.0	mg/k	ίg		12/15/22 14:2	12/16/22	19:53	
C10-C28) Oll Range Organics (Over C28-C36)	e	50.0 U			50.0	mg/k	a		12/15/22 14:2	2 12/16/22	19:53	
					00.0	mg/r	. е		12/10/22 14.2	12/10/22	10.00	
		MB M	1B									

	MD		
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	131	S1+	70 - 130

Lab Sample ID: LCS 880-41930/2-A Matrix: Solid Analysis Batch: 41982

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	961.8		mg/Kg		96	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1013		mg/Kg		101	70 - 130
C10-C28)							

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Prep Type: Total/NA

Prep Batch: 41930

Prepared

12/15/22 14:22

12/15/22 14:22

Analyzed

12/16/22 19:53

12/16/22 19:53

Client Sample ID: Lab Control Sample

Dil Fac

1

QC Sample Results

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

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

Page 233 of 3 .	10
Job ID: 890-3646-1 SDG: 03E11558091	

Lab Sample ID: LCS 880-41930/	2-A						Client	Sample	ID: Lab Co		
Matrix: Solid										ype: To	
Analysis Batch: 41982									Prep	Batch:	4193
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	114	- <u>-</u>	70 - 130								
o-Terphenyl	122		70 - 130								
Lab Sample ID: LCSD 880-4193	0/3-A					Clier	nt Sam	nple ID: I	_ab Contro	I Sampl	e Du
Matrix: Solid									Prep 1	ype: To	tal/N
Analysis Batch: 41982									Prep	Batch:	4193
			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics			1000	979.2		mg/Kg		98	70 - 130	2	2
(GRO)-C6-C10			1000	1000							
Diesel Range Organics (Over			1000	1008		mg/Kg		101	70 - 130	1	2
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	114		70 - 130								
o-Terphenyl	120		70 - 130								
											_
Lab Sample ID: 890-3646-1 MS								Clier	nt Sample I		
Matrix: Solid										ype: To	
Analysis Batch: 41982								Batch:	4193
	-	Sample	Spike		MS		_	a/ B	%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U FZ	999	1283		mg/Kg		128	70 - 130		
Diesel Range Organics (Over	<50.0	U	999	1005		mg/Kg		101	70 - 130		
C10-C28)		-									
Summe mede		MS	Limite								
Surrogate 1-Chlorooctane	%Recovery 98	Qualifier	Limits 70 - 130								
	90 88		70 - 130 70 - 130								
o-Terphenyl	00		70 - 130								
Lab Sample ID: 890-3646-1 MSE)							Clier	nt Sample I		B (M
Matrix: Solid								onor		ype: To	· · ·
Analysis Batch: 41982										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics (GRO)-C6-C10	<50.0		997	1006		mg/Kg		101	70 - 130	24	2
Diesel Range Organics (Over	<50.0	U	997	889.7		mg/Kg		89	70 - 130	12	2
C10-C28)				20011		و و		50			-
		MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	84		70 - 130								

QC Sample Results

Job ID: 890-3646-1 SDG: 03E11558091

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41925/1-/ Matrix: Solid	A								Client S	ample ID:		
Analysis Batch: 42330										Frep	Type: S	oiubie
Analysis Batch. 42550		MB MB										
Analyte	Re	sult Qualifier		RL	Unit		D	Pr	epared	Analyz	zed	Dil Fac
Chloride		5.00 U		5.00	mg/K	q				12/22/22		1
-					Ū	•						
Lab Sample ID: LCS 880-41925/2	- A						Cli	ent	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 42330												
			Spike	LCS	LCS					%Rec		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Chloride			250	268.0		mg/Kg			107	90 - 110		
Lab Sample ID: LCSD 880-41925/	A CI					C	ont C	• • • •		Lab Contro	al Compl	
Matrix: Solid	3-A					CI	ient s	am	pie iD. i		Type: S	
										Fieb	Type. 3	oluble
Analysis Batch: 42330			Spike	LCSD	LCSD					%Rec		RPD
			Spike Added		LCSD Qualifier	Unit		D	%Rec	%Rec Limits	RPD	
Analyte						Unit mg/Kg		<u>D</u>	%Rec 106		RPD	Limit
Analyte Chloride			Added	Result				<u>D</u>	106	Limits 90 - 110	1	Limit 20
Analyte Chloride Lab Sample ID: 890-3644-A-11-B	MS		Added	Result				<u>D</u> .	106	Limits 90 - 110 Sample ID	1 •: Matrix	Limit 20 Spike
Analyte Chloride Lab Sample ID: 890-3644-A-11-B Matrix: Solid	MS		Added	Result				<u>D</u> .	106	Limits 90 - 110 Sample ID	1	Limit 20 Spike
Analyte Chloride Lab Sample ID: 890-3644-A-11-B			Added 250	Result 266.1	Qualifier			<u>D</u> .	106	Limits 90 - 110 Sample ID Prep	1 •: Matrix	Limit 20 Spike
Analyte Chloride Lab Sample ID: 890-3644-A-11-B Matrix: Solid Analysis Batch: 42330	Sample	•	Added 250 Spike	Result 266.1 MS	Qualifier	mg/Kg			106 Client	Limits 90 - 110 Sample ID Prep %Rec	1 •: Matrix	
Analyte Chloride Lab Sample ID: 890-3644-A-11-B Matrix: Solid Analysis Batch: 42330 Analyte	Sample Result	Qualifier	Added 250 Spike Added	Result 266.1 MS Result	Qualifier MS Qualifier	mg/Kg		<u>D</u> .	106 Client	Limits 90 - 110 Sample ID Prep %Rec Limits	1 •: Matrix	Limit 20 Spike
Analyte Chloride Lab Sample ID: 890-3644-A-11-B Matrix: Solid Analysis Batch: 42330 Analyte	Sample	Qualifier	Added 250 Spike	Result 266.1 MS	Qualifier MS Qualifier	mg/Kg			106 Client	Limits 90 - 110 Sample ID Prep %Rec	1 •: Matrix	Limit 20 Spike
Analyte Chloride Lab Sample ID: 890-3644-A-11-B Matrix: Solid Analysis Batch: 42330 Analyte Chloride	Sample Result 165	Qualifier	Added 250 Spike Added	Result 266.1 MS Result	Qualifier MS Qualifier	mg/Kg	Clien		106 Client %Rec 137	Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	Type: S	Limit 20 Spike oluble
Analyte Chloride Lab Sample ID: 890-3644-A-11-B Matrix: Solid Analysis Batch: 42330 Analyte	Sample Result 165	Qualifier	Added 250 Spike Added	Result 266.1 MS Result	Qualifier MS Qualifier	mg/Kg	Clien		106 Client %Rec 137	Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 D: Matrix S	1 2: Matrix Type: S	Limit 20 Spike oluble
Analyte Chloride Lab Sample ID: 890-3644-A-11-B Matrix: Solid Analysis Batch: 42330 Analyte Chloride Lab Sample ID: 890-3644-A-11-C Matrix: Solid	Sample Result 165	Qualifier	Added 250 Spike Added	Result 266.1 MS Result	Qualifier MS Qualifier	mg/Kg	Clien		106 Client %Rec 137	Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 D: Matrix S	Type: S	Limit 20 Spike oluble
Analyte Chloride Lab Sample ID: 890-3644-A-11-B Matrix: Solid Analysis Batch: 42330 Analyte Chloride Lab Sample ID: 890-3644-A-11-C	Sample Result 165	Qualifier	Added 250 Spike Added	Result 266.1 MS Result 505.8	Qualifier MS Qualifier	mg/Kg	Clien		106 Client %Rec 137	Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 D: Matrix S	1 2: Matrix Type: S	Limit 20 Spike oluble
Analyte Chloride Lab Sample ID: 890-3644-A-11-B Matrix: Solid Analysis Batch: 42330 Analyte Chloride Lab Sample ID: 890-3644-A-11-C Matrix: Solid	Sample Result 165 MSD Sample	Qualifier	Added 250 Spike Added 249	Result 266.1 MS Result 505.8	Qualifier MS Qualifier F1	mg/Kg	Clien		106 Client %Rec 137	Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 D: Matrix Sp Prep	1 2: Matrix Type: S	Limit 20 Spike oluble

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QC Association Summary

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

Job ID: 890-3646-1 SDG: 03E11558091

GC VOA

Prep Batch: 42420

rep Batch: 42420					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42420/5-A	Method Blank	Total/NA	Solid	5035	· · · · ·
nalysis Batch: 42466					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3646-1	PH06B (W)	Total/NA	Solid	8021B	42486
MB 880-42420/5-A	Method Blank	Total/NA	Solid	8021B	42420
MB 880-42483/5-A	Method Blank	Total/NA	Solid	8021B	42483
MB 880-42486/5-A	Method Blank	Total/NA	Solid	8021B	42486
LCS 880-42486/1-A	Lab Control Sample	Total/NA	Solid	8021B	42486
LCS 880-42486/2-A	Lab Control Sample	Total/NA	Solid	8021B	42486
LCSD 880-42483/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42483
890-3646-1 MS	PH06B (W)	Total/NA	Solid	8021B	42486
890-3646-1 MSD	PH06B (W)	Total/NA	Solid	8021B	42486
rep Batch: 42483 Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42483/5-A	Method Blank	Total/NA	Solid	5035	
LCSD 880-42483/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
rep Batch: 42486					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3646-1	PH06B (W)	Total/NA	Solid	5035	
MB 880-42486/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42486/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-42486/2-A	Lab Control Sample	Total/NA	Solid	5035	
890-3646-1 MS	PH06B (W)	Total/NA	Solid	5035	
890-3646-1 MSD	PH06B (W)	Total/NA	Solid	5035	
nalysis Batch: 42582					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3646-1	PH06B (W)	Total/NA	Solid	Total BTEX	

Prep Batch: 41930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3646-1	PH06B (W)	Total/NA	Solid	8015NM Prep	
MB 880-41930/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41930/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3646-1 MS	PH06B (W)	Total/NA	Solid	8015NM Prep	
890-3646-1 MSD	PH06B (W)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3646-1	PH06B (W)	Total/NA	Solid	8015B NM	41930
MB 880-41930/1-A	Method Blank	Total/NA	Solid	8015B NM	41930
LCS 880-41930/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41930
LCSD 880-41930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41930
890-3646-1 MS	PH06B (W)	Total/NA	Solid	8015B NM	41930
890-3646-1 MSD	PH06B (W)	Total/NA	Solid	8015B NM	41930

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QC Association Summary

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H Job ID: 890-3646-1 SDG: 03E11558091

GC Semi VOA

Analysis Batch: 42189

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3646-1	PH06B (W)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3646-1	PH06B (W)	Soluble	Solid	DI Leach	
VB 880-41925/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-41925/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-41925/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-3644-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3644-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
nalysis Batch: 42330					
nalysis Batch: 42330	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
nalysis Batch: 42330 Lab Sample ID		Prep Type Soluble	Matrix Solid	<u>Method</u> 300.0	Prep Batch 41925
nalysis Batch: 42330 Lab Sample ID 390-3646-1	Client Sample ID				
nalysis Batch: 42330 Lab Sample ID 390-3646-1 MB 880-41925/1-A	Client Sample ID PH06B (W)	Soluble	Solid	300.0	41925
nalysis Batch: 42330 Lab Sample ID 390-3646-1 MB 880-41925/1-A _CS 880-41925/2-A	Client Sample ID PH06B (W) Method Blank	Soluble	Solid Solid	300.0 300.0	41925 41925
	Client Sample ID PH06B (W) Method Blank Lab Control Sample	Soluble Soluble Soluble	Solid Solid Solid	300.0 300.0 300.0	41925 41925 41925 41925

Project/Site: PLU 27 Brushy Draw 161H

Client Sample ID: PH06B (W)

Job ID: 890-3646-1 SDG: 03E11558091

Lab Sample ID: 890-3646-1 Matrix: Solid

Date Collected: 12/12/22 13:50 Date Received: 12/13/22 15:30

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	42486	12/22/22 10:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/23/22 21:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42582	12/24/22 08:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42189	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 21:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/23/22 00:44	SMC	EET MID

Laboratory References:

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

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	•	e e e e e e e e e e e e e e e e e e e	or anotation o annual y		
Client: Ensolum				Job ID: 890-3646-1	
Project/Site: PLU 27 B	brushy Draw 161H			SDG: 03E11558091	
Laboratory: Eurof	ins Midland				3
Unless otherwise noted, all a	analytes for this laboratory we	re covered under each acc	reditation/certification below.		
Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-25	06-30-23	
The following analytes	are included in this report, bu	It the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not o		Markin	A		
Analysis Method Total BTEX	Prep Method	Matrix Solid	Analyte Total BTEX		
		Solid	Iotal BIEX		
					8
					9
					10
					13

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Method Summary

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

Job ID: 890-3646-1 SDG: 03E11558091

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Job ID: 890-3646-1 SDG: 03E11558091

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3646-1	PH06B (W)	Solid	12/12/22 13:50	12/13/22 15:30	8'	4
						5
						8
						9
						12
						13

.

Envroumment result Man // N2370-Stad Sin Andoor, N7 (800 794-793) BC/O BC/O Delta III Company Name XTU Env. 4(1800 794-793) Carl Stad X, NM Env. 100 793 893-390 Sin Andoor, N7 (800 794-793) Sin Andoor, N7 (800 794-793) Carl Stad X, NM Carl Stad X, NM Carl Stad X, NM Carl Stad X, NM Carl Stad X, NM Env. 100 Fill Env. 100 Fill Env. 100 Fill PLUE T Bruck Link Invariance of the previous bio fill Carl Stad X, NM EDC Carl Stad X, NM EDC Carl Stad X, NM EDC Carl Stad X, NM PLUE T Bruck Link Tim Annual Envertioned bio fill Envertioned bio fill Envertioned bio fill Carl Stad X, MM Envertione Envertione bio fill Envertione bio fill Envertioned bio fill Envertioned bio fill Carl Stad X, MM Envertione Envertione bio fill Envertione bio fill Envertioned bio fill Envertioned bio fill Carl Stad X, MM Envertione Envertione Envertione bio fill Envertioned bio fill Envertioned bio fill Envertioned bio fill Carl Stad X, MM Envertione Envertione Envertioned bio fill Envertioned bio fill Envertioned bio fill Carl Stad X, Base Bio GC G, Co Co Co Fe Ph Mg Mn NoN Ni K Envertioned bio fill </th <th></th> <th></th> <th>6</th> <th></th> <th>my a</th> <th>rer set al</th> <th>W DC - II</th> <th>1 VICEN</th>			6		my a	rer set al	W DC - II	1 VICEN
www.xenco.com P work Order Comme T/PST PRP Brownfiel EDD ADaPT ADaPT ADaPT Coll HCL: Se Ag SiO ₂ Na Sr TI S Se Ag SiO ₂ Na Sr TI S			1 1	Date/Time	t t	Received by: (Signatur		Relinquished by: (Signature)
www.xenco.com P Program: UST/PST PRP Brownfiel State of Project: ED ADaPT Deliverables: ED ADaPT Cool Outstody H <td></td> <td>s and conditions ond the control previously negotlated.</td> <td>subcontractors. It assigns standard term such losses are due to circumstances bey yzed. These terms will be enforced unless</td> <td>irofins Xenco, its affiliates and enses incurred by the client if 5 Eurofins Xenco, but not anah</td> <td>er from client company to E nsibility for any losses or exp for each sample submitted t</td> <td>les constitutes a valid purchase orc sles and shall not assume any resp to each project and a charge of \$5</td> <td>nent and relinquishment of samp be liable only for the cost of samp hcharge of \$85.00 will be applied</td> <td>otice: Signature of this docur service. Eurofins Xenco will Eurofins Xenco. A minimum</td>		s and conditions ond the control previously negotlated.	subcontractors. It assigns standard term such losses are due to circumstances bey yzed. These terms will be enforced unless	irofins Xenco, its affiliates and enses incurred by the client if 5 Eurofins Xenco, but not anah	er from client company to E nsibility for any losses or exp for each sample submitted t	les constitutes a valid purchase orc sles and shall not assume any resp to each project and a charge of \$5	nent and relinquishment of samp be liable only for the cost of samp hcharge of \$85.00 will be applied	otice: Signature of this docur service. Eurofins Xenco will Eurofins Xenco. A minimum
Envroumment resting Mit and TK 1033 Sea 440. San America X 100 Sea 3310 Work Coller Normal Bill foor if different Bill foor if different Company Name X T.U Converted Transmission Work Coller Comment Card Skazid, LVM Robert Normal Card Skazid, LVM Robert Normal Status To Skazid, LVM Normality Work Coller Comment Card Skazid, LVM Robert Normal Status Enable Status Status Normality Nork Coller Comment Nork Coller Coller Nork Coller Nork Coller Nork Coller No	SiO ₂ Na Sr 1631 / 245.1 ,	li K Se		ib As Ba Be B Cd Sb As Ba Be Cd C	M Texas 11 AI S PLP 6010 : 8RCRA	8RCRA 13PF lyzed TCLP / S	200.8 / 6020: nd Metal(s) to be ana	Total 200.7 / 6010 ircle Method(s) ar
Environment resulty Maked TX121 XX45 Served Lines As Antoneous TX1001 Straids Work Order for Straids Work Order for Straids BL72 NAH Environment Tx111 Bilte: Intrafferen Carstsarb Carstsarb Str22 NAH Str22 NAH Str22 NAH Str22 NAH Environment Str22 Str22 NAH National Str22 Str22 NAH National Str22 Str22 Str22 NAH National Str22 Str23	1001969991							
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Carlsbad NM 86220 Phone: 575-988-3199 Fax 575-988-3199				ion à la		2						M							ę		Environment Testing
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Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central. LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC aboratory Central, LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC	ent Testing South Central above for analysis/tests/n Central, LLC attention imn	l, LLC places the natrix being an nediately If all	he ownership o alyzed, the sail requested ac	of method ana mples must be creditations are	yte & acci shipped b current to	ack to back	in com the Eu	plianc rofins the sig	e upoi Envira Ined C	n our : Inmen hain c	subca t Test of Cus	ntract ng So lody a	abora uth Ce	tories entral g to s	This	sam; abora mplia	tory once to	r othe	nt is er ins ofins	 forwarded under chain structions will be provid Environment Testing S 	i-of-custody If the led. Any changes to South Central, LLC
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Eurofins Carlsbad

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Eurofins Carlsbad 1089 N Canal St Carlsbad, NM 88220 Phone 575-988-3199 Fax 575-988-3199 Em	Client Information Sub Contract Lab Sampler Lab PM: Carrier Tracking No(s). COC No: Client Information (Sub Contract Lab) Kramer, Jessica 890-1064 1	Client Contact: Phone: E-Mail State of Origin. Page Shipping/Receiving Jessica Kramer@et.eurofinsus.com New Mexico Page 1 of 1		20	B A HCL G - Zn Acetate	D Nitre Acid E NaHSO4	de L Ascochia Aria	WO# or Nc Hoj (MO Chlorid EX		Sample SD (Ye ot6NM D/DI_LL Cale (M V	Type Type (Wernater Solution Sol	Field Perfd 80151 80151 300_C 80218 Total	V Preservation Code: XX X X	Image: Non-conduction 12/12/22 Mountain Solid X				Invite: Since and advect status should be brought to change Euronns Environment Testing South Central LLC places the winership of method analys & accreditation compliance upon or subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin Isteacon advects the status should be brought to Eurofins Environment Testing South Central LLC advects analysat the samples must be shipped back to the Eurofins Environment Testing South Central LLC advectory of the interview of the samples to the status should be brought to Eurofins Environment Testing South Central LLC advectory in mediately. If all requested accreditations are current to that as the the testing South Central LLC advectory of the interview of the samples to the samples to the samples to the testing South Central LLC advectory of the interview of the samples to the samples to the testing South Central LLC advectory of the interview of the samples to the samples to the testing South Central LLC advectory of the interview of the interview of the interview of the samples to the samples to the testing South Central LLC advectory of the interview of the samples to the same		Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 mon Unconfirmed Unconfirmed Return To Client Disposal By Lab Archive For M Deliverable Requested 1 II III, IV Other (specify) Primary Deliverable Rank. 2 Special Instructions/QC Requirements	Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 mon Unconfirmed Unconfirmed Sample Disposal (A fee may be assessed if samples are retained longer than 1 mon Disposal By Lab Archive For Monther (specify) Deliverable Requested 1 II III, IV Other (specify) Primary Deliverable Rank. 2 Special Instructions/QC Requirements Empty Kit Relinquished by Date Time Method of Shipment.	Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 mon Unconfirmed Unconfirmed Sample Disposal (A fee may be assessed if samples are retained longer than 1 mon Disposal By Lab Archive For Method of Shipment. Deliverable Requested 1 II III, IV Other (specify) Primary Deliverable Rank. 2 Special Instructions/QC Requirements Empty Kit Relinquished by Date/Time. Date/Time. Company Time Method of Shipment. Relinquished by Date/Time. Company Company <td< th=""><th>Possible Hazard Identification Company Company</th><th>Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 mon Unconfirmed Unconfirmed Caller Time Caller Time Disposal (A fee may be assessed if samples are retained longer than 1 mon Unconfirmed Disposal By Lab Archive For Mon Pater Empty Kit Relinquished by Primary Deliverable Rank. 2 Date Time Disposal By Lab Archive For Mon Pater Relinquished by Date/Time. Date/Time. Company Company Date/Time. Company</th></td<>	Possible Hazard Identification Company Company	Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 mon Unconfirmed Unconfirmed Caller Time Caller Time Disposal (A fee may be assessed if samples are retained longer than 1 mon Unconfirmed Disposal By Lab Archive For Mon Pater Empty Kit Relinquished by Primary Deliverable Rank. 2 Date Time Disposal By Lab Archive For Mon Pater Relinquished by Date/Time. Date/Time. Company Company Date/Time. Company
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Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3646 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 ampered 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	
s 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.	N/A	Refer to Job Narrative for details.
ppropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Job Number: 890-3646-1 SDG Number: 03E11558091

List Source: Eurofins Carlsbad

Job Number: 890-3646-1 SDG Number: 03E11558091

List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3646 List Number: 2 Creator: Teel, Brianna

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

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

Received by OCD: 8/17/2023 1:05:35 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/27/2022 8:39:16 AM

JOB DESCRIPTION

PLU 27 Brushy Draw 161H SDG NUMBER 03E1558091

JOB NUMBER

890-3648-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Received by OCD: 8/17/2023 1:05:35 PM

1

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 12/27/2022 8:39:16 AM

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

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

Laboratory Job ID: 890-3648-1

SDG: 03E1558091

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 CNF
 Contains No Free Liquid

 DER
 Duplicate Error Ratio (normalized absolute difference)

Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

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

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRESPresumptiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)

- RPD Relative Percent Difference, a measure of the relative difference between two points
- TEF Toxicity Equivalent Factor (Dioxin)
- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Job ID: 890-3648-1

SDG: 03E1558091

Project/Site: PLU 27 Brushy Draw 161H

4

Job ID: 890-3648-1 SDG: 03E1558091

Job ID: 890-3648-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3648-1

Receipt

The sample was received on 12/13/2022 3:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 9.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: PH05B (890-3648-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41930 and analytical batch 880-41982 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-41930 and analytical batch 880-41982 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41924 and analytical batch 880-42328 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: PH05B (890-3648-1), (890-3647-A-5-A) and (890-3647-A-5-B MS).

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

Project/Site: PLU 27 Brushy Draw 161H

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

Result Qualifier

<0.00199 U

RL

0.00199

Unit

mg/Kg

D

Prepared

12/22/22 10:23

Job ID: 890-3648-1 SDG: 03E1558091

Client Sample ID: PH05B

Date Collected: 12/12/22 13:10 Date Received: 12/13/22 15:30

Sample Depth: 7'

Analyte

Benzene

Client: Ensolum

Lab Sample ID: 890-3648-1

Analyzed

12/23/22 21:23

Matrix: Solid

Chloride	795		24.8	mg/Kg			12/22/22 13:25	5
Analyte		Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
Method: MCAWW 300.0 - Anions	Ion Chromato	ography - S	oluble					
o-Terphenyl	94		70 - 130			12/15/22 14:22	12/16/22 22:06	1
1-Chlorooctane	96		70 - 130			12/15/22 14:22	12/16/22 22:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/16/22 22:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/16/22 22:06	1
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/16/22 22:06	1
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies	• •		(GC)					
Total TPH	<49.9	U	49.9	mg/Kg			12/19/22 15:03	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/24/22 08:27	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
1,4-Difluorobenzene (Surr)	88		70 - 130			12/22/22 10:23	12/23/22 21:23	1
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			12/22/22 10:23	12/23/22 21:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/22/22 10:23	12/23/22 21:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/22/22 10:23	12/23/22 21:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/22/22 10:23	12/23/22 21:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/22/22 10:23	12/23/22 21:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/22/22 10:23	12/23/22 21:23	1
201120110	0.00100	•						-

12/27/2022

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3646-A-1-E MS	Matrix Spike	120	85	
890-3646-A-1-F MSD	Matrix Spike Duplicate	111	87	
890-3648-1	PH05B	132 S1+	88	
LCS 880-42486/1-A	Lab Control Sample	107	85	
LCS 880-42486/2-A	Lab Control Sample	111	86	
LCSD 880-42483/2-A	Lab Control Sample Dup	94	95	
MB 880-42420/5-A	Method Blank	97	90	
MB 880-42483/5-A	Method Blank	101	86	
MB 880-42486/5-A	Method Blank	105	76	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
46-A-1-C MS	Matrix Spike	98	88	
46-A-1-D MSD	Matrix Spike Duplicate	84	78	
8-1	PH05B	96	94	
-41930/2-A	Lab Control Sample	114	122	
880-41930/3-A	Lab Control Sample Dup	114	120	
80-41930/1-A	Method Blank	133 S1+	131 S1+	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

on n = o-terpheny

5 6

Prep Type: Total/NA

Prep Type: Total/NA
QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4242	20/5-A								Client Sa	ample ID: I	Nethod	l Blank
Matrix: Solid												otal/NA
Analysis Batch: 42466												42420
· ·····, · · · · · · · · · · · · · · ·	MB	МВ										
Analyte	Result	Qualifier	RL		Unit		D	Pr	epared	Analyz	ed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/K	g	_	12/21	1/22 12:40	12/22/22 2	22:51	1
Toluene	<0.00200	U	0.00200		mg/K	g		12/21	1/22 12:40	12/22/22 2	22:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/K	-		12/21	1/22 12:40	12/22/22 2	22:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/K			12/21	/22 12:40	12/22/22 2	22:51	1
o-Xylene	< 0.00200		0.00200		mg/K	-			1/22 12:40	12/22/22 2		1
Xylenes, Total	<0.00400		0.00400		mg/K	-			1/22 12:40	12/22/22 2		1
					5	5						
	MB											
Surrogate	%Recovery	Qualifier	Limits						repared	Analyz		Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130						1/22 12:40	12/22/22 2		1
1,4-Difluorobenzene (Surr)	90		70 - 130					12/21	1/22 12:40	12/22/22 2	22:51	1
Lab Sample ID: MB 880-424	R3/5-A								Client Sa	ample ID: I	Method	l Blank
Matrix: Solid												otal/NA
Analysis Batch: 42466												42483
	МВ	МВ										
Analyte	Result	Qualifier	RL		Unit		D	Pr	epared	Analyz	ed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/K	g	_	12/22	2/22 09:22	12/23/22 (09:36	1
Toluene	<0.00200	U	0.00200		mg/K	g		12/22	2/22 09:22	12/23/22 (09:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/K	g		12/22	2/22 09:22	12/23/22 (09:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/K	g		12/22	2/22 09:22	12/23/22 (09:36	1
o-Xylene	<0.00200	U	0.00200		mg/K	g		12/22	2/22 09:22	12/23/22 (09:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/K	g		12/22	2/22 09:22	12/23/22 (09:36	1
	MB	МВ										
Surrogate	%Recovery		Limits					Pr	epared	Analyz	ed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130					12/22	2/22 09:22	12/23/22 (1
1,4-Difluorobenzene (Surr)	86		70 - 130					12/22	2/22 09:22	12/23/22 (09:36	1
	0.400.00							•				
Lab Sample ID: LCSD 880-42	2483/2-A					U U	ient	Sam	pie ID: L	ab Contro		
Matrix: Solid												otal/NA
Analysis Batch: 42466			0	1.000	LCSD						Batch	42483
Analysis			Spike Added		Qualifier	11			0/ Dee	%Rec	RPD	RPD
Analyte					Quaimer			_ <u>D</u>	%Rec	Limits		Limit
Benzene			0.100	0.08380		mg/Kg			84 80	70 ₋ 130 70 ₋ 130	20	35
Toluene			0.100	0.07951		mg/Kg			80 72		19	35
Ethylbenzene			0.100	0.07270		mg/Kg			73	70 - 130	21 22	35 35
m-Xylene & p-Xylene			0.200	0.1547		mg/Kg			77	70 - 130		
o-Xylene			0.100	0.07994		mg/Kg			80	70 - 130	20	35
	LCSD LCS											
Surrogate	%Recovery Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	94		70 - 130									
1,4-Difluorobenzene (Surr)	95		70 - 130									
Lab Sample ID: MB 880-424	86/5-A								Client Sa	ample ID: I	Method	l Blank
Matrix: Solid												otal/NA
Analysis Batch: 42466												: 42486
	МВ	МВ								iieh	Daton.	
Analyte		Qualifier	RL		Unit		D	Pr	epared	Analyz	ed	Dil Fac
							_					

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/22/22 10:23	12/23/22 20:41	1

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Job ID: 890-3648-1

SDG: 03E1558091

QC Sample Results

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

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

Lab Sample ID: MB 880-424	86/5-A								Client Sa	ample ID: Metho	
Matrix: Solid										Prep Type: 7	Total/NA
Analysis Batch: 42466										Prep Batcl	h: 42486
	М	в мв									
Analyte	Resu	It Qualifier	F	RL	Unit		D	Р	repared	Analyzed	Dil Fac
Toluene	<0.0020	0 U	0.0020	00	mg/K	g	_	12/2	2/22 10:23	12/23/22 20:41	1
Ethylbenzene	<0.0020	0 U	0.0020	00	mg/K	g		12/2	2/22 10:23	12/23/22 20:41	
n-Xylene & p-Xylene	<0.0040	0 U	0.0040	00	mg/K	g		12/2	2/22 10:23	12/23/22 20:41	• • • • • • •
o-Xylene	<0.0020		0.0020	00	mg/K	g		12/2	2/22 10:23	12/23/22 20:41	
Xylenes, Total	<0.0040	0 U	0.0040	00	mg/K	g		12/2	2/22 10:23	12/23/22 20:41	
	M							_			
Surrogate	%Recover		Limits 70 - 130	<u> </u>				-	repared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130 70 - 130						2/22 10:23	12/23/22 20:41	
1,4-Difluorobenzene (Surr)	/	6	70 - 130					12/2	2/22 10:23	12/23/22 20:41	
Lab Sample ID: LCS 880-424	486/1-A						С	lient	Sample	ID: Lab Control	Sample
Matrix: Solid									. oumpro	Prep Type:	
Analysis Batch: 42466										Prep Batcl	
			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Benzene			0.100	0.09622		mg/Kg			96	70 - 130	
Toluene			0.100	0.1007		mg/Kg			101	70 - 130	
Ethylbenzene			0.100	0.1028		mg/Kg			103	70 - 130	
n-Xylene & p-Xylene			0.200	0.2274		mg/Kg			114	70 - 130	
o-Xylene			0.100	0.1119		mg/Kg			112	70 - 130	
						0 0					
	LCS LO										
Surrogate		ualifier	Limits								
4-Bromofluorobenzene (Surr)	107		70 - 130								
1,4-Difluorobenzene (Surr)	85		70 - 130								
Lab Sample ID: LCS 880-424	186/2-4						C	liont	Sample	ID: Lab Control	Sample
Matrix: Solid							Ŭ		Campio	Prep Type:	
Analysis Batch: 42466										Prep Batcl	
			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Benzene			0.100	0.09788		mg/Kg			98	70 - 130	
Toluene			0.100	0.1020		mg/Kg			102	70 - 130	
Ethylbenzene			0.100	0.1044		mg/Kg			104	70 - 130	
m-Xylene & p-Xylene			0.200	0.2327		mg/Kg			116	70 - 130	
o-Xylene			0.100	0.1151		mg/Kg			115	70 - 130	
						5 5					
	LCS LC										
Surrogate		ualifier	Limits								
4-Bromofluorobenzene (Surr)	111		70 - 130								
1,4-Difluorobenzene (Surr)	86		70 - 130								
_ab Sample ID: 890-3646-A-									Client 9	Sample ID: Matr	iv Chik
Lab Sample ID: 890-3646-A- Matrix: Solid									Chefft a		-
Analysis Batch: 42466										Prep Type: Prep Batcl	
Anarysis Daton. 42400	Sample Sa	mple	Spike	MS	MS					%Rec	
Analyte	Result Q	-	Added		Qualifier	Unit		D	%Rec	Limits	
				0.00105	guanno					70, 400	

<0.00201

<0.00201 U

<0.00201 U

U

0.0998

0.0998

0.0998

0.08133

0.09387

0.1032

mg/Kg

mg/Kg

mg/Kg

81

94

103

70 - 130

70 - 130

70 - 130

Benzene

Toluene

Ethylbenzene

12/27/2022

5

Job ID: 890-3648-1 SDG: 03E1558091 Project/Site: PLU 27 Brushy Draw 161H

Client: Ensolum

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

Lab Sample ID: 890-3646-A-	-1-E MS							Client	Sample ID:		
Matrix: Solid										ype: To	
Analysis Batch: 42466	•	. .	• "							Batch:	42486
	Sample	•	Spike		MS		_	~ -	%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
m-Xylene & p-Xylene	<0.00402		0.200	0.2296		mg/Kg		115	70 - 130		
o-Xylene	<0.00201	U	0.0998	0.1123		mg/Kg		112	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	120		70 - 130								
1,4-Difluorobenzene (Surr)	85		70 - 130								
Lab Sample ID: 890-3646-A-	1-F MSD					СІ	ient S	ample ID	: Matrix Sp	oike Dup	olicat
Matrix: Solid									Prep T	ype: To	tal/N/
Analysis Batch: 42466									Prep	Batch:	4248
	Sample	Sample	Spike	MSD	MSD				%Rec		RPI
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Benzene	<0.00201	U	0.0990	0.08250		mg/Kg		83	70 - 130	1	3
Toluene	<0.00201	U	0.0990	0.08671		mg/Kg		88	70 - 130	8	3
Ethylbenzene	<0.00201	U	0.0990	0.08708		mg/Kg		88	70 - 130	17	3
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1918		mg/Kg		97	70 - 130	18	3
o-Xylene	<0.00201	U	0.0990	0.09425		mg/Kg		95	70 - 130	17	3
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	87		70 - 130								
lethod: 8015B NM - Die	sel Range O	ganics (E	ORO) (GC)								
Lab Sample ID: MB 880-419	30/1-A							Client S	ample ID: I	Method	Blan
Matrix: Solid								cheft 0		ype: To	
Analysis Batch: 41982										Batch:	
Analysis Baton. 41002		МВ МВ							iteb	Suton.	-100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/16/22 19:53	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/16/22 19:53	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/16/22 19:53	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130			12/15/22 14:22	12/16/22 19:53	1

	1-Chlorooctane	133	S1+	70 - 130	12/15/22 14:22	12/16/22 19:53	1
	o-Terphenyl	131	S1+	70 _ 130	12/15/22 14:22	12/16/22 19:53	1
ĺ	_ Lab Sample ID: LCS 880-41930/2-4				Client Sample II	D: Lab Control	Sample
					-		

Matrix: Solid
Analysis Batch: 41982

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	961.8		mg/Kg		96	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1013		mg/Kg		101	70 - 130	
C10-C28)								

Eurofins Carlsbad

Prep Type: Total/NA Prep Batch: 41930

QC Sample Results

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

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

	1
Job ID: 890-3648-1	
SDG: 03E1558091	2
	3
Client Sample ID: Lab Control Sample	
Prep Type: Total/NA	4
Prep Batch: 41930	E

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LCS LCS LCS Surragete 149 20.11/10 1-Ohicroactane 119 70.130 Lab Sample ID: LCSD 880-41930/3-A Cilent Sample ID: Lab Control Sample Dup Prep Type: TotalNA Matrix: Solid Analysis Batch: 41982 Spike LCSD LCSD LCSD LCSD Matrix: Solid Analysis Batch: 41982 Added Result Qualifier Unit D Wee RPD Imite Gascine Parge Organics (GRC)/CAC10 000 792 migKg D Wee Entry PD 20 20 Gascine Parge Organics (Over 1000 1008 migKg 101 70.130 1 20 Cilect Sample Dip Bio-3646-A-1-C MS LCSD LCSD LCSD Sample Sample Spike MS MS Wree Prep Batch: 41930 Analysis Batch: 41932 Sample Sample Spike MS MS With Prep Batch: 41930 Matrix: Solid Analysis Batch: 41930 MS Wree TotalNA Gascine Range Organics (Over <50.0 U 909 1005 migKg 101 <th>Lab Sample ID: LCS 880-4193 Matrix: Solid Analysis Batch: 41982</th> <th>0/2-A</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Client</th> <th>Sample</th> <th></th> <th>ontrol Sa ype: Tot Batch: 4</th> <th>al/NA</th>	Lab Sample ID: LCS 880-4193 Matrix: Solid Analysis Batch: 41982	0/2-A						Client	Sample		ontrol Sa ype: Tot Batch: 4	al/NA
surrogate I-Chinocodane o Terphenyi %Recovery 122 Qualifier 122 Linite 70.130 Lab Sample (D: LCSD 880-41930/3-A Matrix: Solid Analysis Batch: 41962 Spile Closs (CSD Gene)ne Range Organics (GRO)-C6-C10 Spile Matrix: Solid Analysis Batch: 41962 Spile CLSD Client Sample (D: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 41930 Analysis Batch: 41962 Matrix: Solid Geneine Range Organics (Over C10-C28) Matrix: Solid Matrix: Solid Analysis Batch: 41982 NRec CSD CSD Spile Result Qualifier Unit D %Rec 70.130 RPD 2 Limits RPD Limits Surrogate C-Grophenyi Matrix: Solid Analysis Batch: 41982 LCSD LCSD Surrogate Conception Loss 70.130 Spile Result Qualifier Conception MS MS Water Prep Type: Total/NA Analysis Batch: 41982 Lab Sample ID: 890-5846-A-1-C MS Matrix: Solid Graoline Range Organics (Over Cloc28) Sample Spile Matrix: Solid Analysis Batch: 41982 Sample Spile Matrix: Solid Cloc28 MS Water Prep Type: Total/NA Prep Batch: 41930 Surrogate Cloc28) MS MS MS MS Matrix: Solid Analysis Batch: 41982 MS MS MS MS Second Result Qualifier Cloc28) MS MS MS MS Prep Type: Total/NA Prep Batch: 41930 Lab Sample ID: 880-3646-A-1-D MSD Matrix: Solid Analysis Batch: 41982 MS MS MS MS MS MS MS												
I-Ohrosoctane o-Terphenyi 114 70.130 Lab Sample ID: LCSD 880-41930/3-A Matrix: Solid Analysis Batch: 41982 Client Sample ID: Lab Control Sample Dup Prep Type: TotalNA Prep Batch: 41982 Analyte Gasoline Range Organics (GRO)-CS-01 Diesel Range Organics (Over C10-C28) Spike Added CLSD LCSD (CSD) CSD With CSD CSD V Recovery Cubic LCSD LCSD V Rec V Recovery Cubic New CSD Unit D V Recovery Cubic New CSD New CSD LCSD V CSD CSD V CSD CSD V CSD CSD V CSD CSD V CSD LCSD V CSD LImits V CSD LImits V CSD LImits V CSD Client Sample ID: Matrix Spike V CSD Prep Batch: 41930 Lab Sample D1D: 890-3646-A.1-C MS Matrix: Solid Analysis Batch: 41982 Spike V CSD MS MS MS MS V CSD		LCS	LCS									
LeTerphenyl 122 70.130 Lab Sample ID: LCSD 880-41930/3-A Matrix: Solid Analysis Batch: 41982 Spike Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Analysis Batch: 41982 Analysis Gasoline Range Organics (Over C10-C28) MCSD VRec Matrix Linits NRecevery Cuelline Result 0000 Unit 979.2 D VRec Mit D VRec WRece RPD Linits Surgate KCSD KCSD VRecevery Waltrix Client Sample ID: Matrix Spike RPD Linits LCSD KCSD KCSD KRecevery Waltrix NRecevery Waltrix RPC Linits 1-Cohrooctane 120 70.130 1008 mg/Kg 101 70.130 1 20 Lab Sample ID: 890-3846-A-1-C MS Matrix Sample Sample Sample Sample Sample Sample Sample Sample NRec Prep Type: Total/NA Prep Batch: 41930 Analyte Result Qualifier Added Result Qualifier MS NRec Client Sample ID: 890-3846-A-1-C MS MS MS NRec NRec NRec NRec NRe	Surrogate	%Recovery	Qualifier									
Lab Sample ID: LCSD 880-41930/3-A Matrix: Solid Analysis Batch: 41982 Client Sample ID: Lab Control Sample Dup Prop Type: Total/NA Prop Batch: 41980 Analyse Gasoline Range Organics (GRO)-CS-010 Diesel Range Organics (Over - Criphenyl Spike 1000 LCSD 1000 LCSD 1000 CSD 1000 CSD 1000 Matrix 979.2 With 1000 With 10000 With 10000	1-Chlorooctane	114		70 - 130								
Matrix: Solid Analysis Batch: 41982 Prep Type: Total/NA Prep Batch: 41930 Analyte GRO)-C6-C10 Desel Range Organics (Over C10-C28) Added 1000 Result 000 Qualifier 079.2 Unit mg/Kg D %Rec 98 To. 130 2 20 Spike GRO)-C6-C10 Desel Range Organics (Over C10-C28) 1000 1008 mg/Kg 101 70.130 1 20 LCSD LCSD C10-C28) LCSD LCSD LCSD LCSD Lmits 70.130 -<	o-Terphenyl	122		70 - 130								
Matrix: Solid Analysis Batch: 41982 Prep Type: Total/NA Prep Batch: 41930 Analyte GRO)-C6-C10 Desel Range Organics (Over C10-C28) Added 1000 Result 000 Quilifer 079.2 Unit mg/Kg D %Rec 98 ZO 100 2 20 Spike GRO)-C6-C10 Desel Range Organics (Over C-10-C28) 1000 1008 mg/Kg 101 70.130 1 20 LCSD Lmits ZO							0					
Analysis Batch: 41982 Prep Batch: 41930 Analyte Added Result Qualifier Unit 0 %Rec RPD Limits RRO R	-	130/3-A					Cliei	nt Sam	ipie iD:			
Analyte Added Reput Result LCSD LCSD LCSD LCSD LCSD LImits RPD LImits Gasoline Range Organics (GRO) C4C-C10 1000 979.2 mg/Kg 98 70.130 2 20 Disele Range Organics (Over C10-C28) 1000 1008 mg/Kg 101 70.130 1 20 Surrogate XRecovery Cualifier Limits -												
Analyte Added Result Qualifier Unit D %Rec Limits RPD Limits Gasoline Range Organics (CRO)-CS-C10 1000 979.2 mg/Kg 101 70.130 2 20 Diesel Range Organics (Over 1000 1008 mg/Kg 101 70.130 1 20 C10-C23) LCSD LCSD LCSD Junit 70.730 70.130 1 20 o-Terphonyl 120 70.130 70.730	Analysis Batch: 41982			0	1.000	1.000					Batch: 4	
Gasoline Range Organics (GR0)-Cc-C10 Interference of the second second second sec	Amelia			-			11	-	0/ D			
GROyCs-C10 Diesel Range Organics (Over C10-C28) LCSD LCSD LCSD LCSD LCSD LCSD LCSD T-Chioroactane 1/14 70.130 1 20 Sample ID: 890-3646-A-1-C MS Matrix: Solid Analyte Sample Sample Spike MS MS S Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 41930 Analyte Result Qualifier Added Result Qualifier Mit D %Rec VRec %Rec Limits GROyCol.C10 UP2 999 1283 mg/Kg 101 70.130 - - GROyCol.C10 UP2 999 1005 mg/Kg 101 70.130 - - Group Corganics (GROyCol.C10 WS MS S -						Qualifier						
Diesel Range Organics (Over C10-C28) LCSD LCSD LCSD Surrogate 7-Chicrooctane 0-Tarphenyl LCSD 14 120 LCSD 70 - 130 70 - 130 LImits 70 - 130 70 - 130 mg/Kg 101 70 - 130 1 20 LCSD C-Clercoctane %Recovery 120 Qualifier 120 Limits 70 - 130 Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 41930 Lab Sample ID: 890-3646-A-1-C MS Matrix: Solid Analyte Sample Result Sample Qualifier Ms MS %Rec Prep Type: Total/NA Prep Batch: 41930 Client Sample ID: Matrix Spike GRO/O-G6-C10 Sample Sample 400 Prep Batch: 41930 %Rec Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 41930 Surrogate %Recovery %Recovery 0-Tarbenyl Qualifier Limits 70 - 130 To - 130 To - 130 Surrogate %Recovery 98 70 - 130 Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Prep Batch: 41930 Lab Sample ID: 890-3646-A-1-D MSD Matrix: Solid Analyte Sample Sample Spike MSD MSD %Rec Prep Type: Total/NA Prep Batch: 41930 Analyte Result Qualifier Added Result Qualifier MSD %Rec Rep Prep Type: Total/NA Prep Bat	0 0			1000	979.2		mg/Kg		98	70 - 130	2	20
C10-C28) LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorocciane 114 70.130 Client Sample ID: Matrix Spike Matrix: Solid Analyte Client Sample ID: Matrix Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec KRec Gasoline Range Organics <50.0				1000	1008		ma/Ka		101	70 130	1	20
LCSDLCSDSurrogate%Recovery1/170.130o-Terphenyl12012070.130Lab Sample ID: 890-3646-A-1-C MSClient Sample ID: Matrix SpikeMatrix: SolidAnalysis Batch: 41982Analysis Batch: 41982SampleSampleSampleSample Range Organics<50.0				1000	1000		iiig/itg		101	70 - 100	I	20
Surrogate %Recovery Qualifier Limits 1-Chlorooctane 114 70.130 o-Terphenyl 120 70.130 Lab Sample ID: 890-3646-A-1-C MS Matrix: Solid Client Sample ID: Matrix Spike Prep Type: Total/MA Prep Batch: 41982 Analysis Batch: 41982 Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Mis MS %Rec Gasoline Range Organics (GRO)-GC-10 0 UF2 999 1005 mg/Kg 128 70.130 Surrogate %Recovery %Recovery Qualifier Limits Client Sample ID: Matrix Spike Duplicate Prep Type: Total/MA Surrogate %Recovery Qualifier Limits Prep Type: Total/MA 1-Chlorooctane 98 70.130 Prep Batch: 41930 Prep Batch: 41930 0-Terphenyl 88 70.130 Prep Type: Total/MA Prep Type: Total/MA Analyte Result Qualifier Added Result Qualifier Mis Prep Batch: 41930	,											
T-Chlorooctane 114 70.130 o-Terphenyl 120 70.130 Lab Sample ID: 890-3646-A-1-C MS Client Sample ID: Matrix Spike Matrix: Solid Analyte Result Qualifier MS MS Prep Batch: 41930 Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0												
o-Terphenyl 120 70.130 Lab Sample ID: 890-3646-A-1-C MS Matrix: Solid Analysis Batch: 41982 Sample Result Sample Qualifier Sike MS MS Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 41930 Analyte Result Qualifier MS MS %Rec Limits Gasoline Range Organics (GRO)-C6-C10 Solid MS MS Sumple MS MS Gasoline Range Organics (GRO)-C6-C10 MS MS MS Diesel Range Organics (GRO)-C6-C10 MS MS Surrogate %Recovery 			Qualifier									
Lab Sample ID: 890-3646-A-1-C MS Matrix: Solid Analysis Batch: 41982Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 41930AnalyteSampleSampleSpikeMSMSPrep Batch: 41930AnalyteResultQualifierAddedMSMSUnitD%RecLimitsGasoline Range Organics<50.0												
Matrix: Solid Analysis Batch: 41982Prep Type: Total/NA Prep Batch: 41930AnalyteSample ResultSample QualifierSpikeMSMSVRec LimitsAnalyteResult (GRO)-C6-C10QualifierAddedResult QualifierQualifierUnit mg/KgD%Rec 128Limits 70-130Diesel Range Organics (Over C10-C28)<50.0	o-Terphenyl	120		70 - 130								
Matrix: Solid Analysis Batch: 41982Prep Type: Total/NA Prep Batch: 41930AnalyteSample ResultSample QualifierSpikeMSMSVRec LimitsAnalyteResult (GRO)-C6-C10QualifierAddedResult QualifierQualifierUnit mg/KgD%Rec 128Limits 70-130Diesel Range Organics (Over C10-C28)<50.0												
Analysis Batch: 41982 Prep Batch: 41930 Analyte Result Qualifier Added Ms MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits	-	CMS							Client			-
SampleSampleSpikeMSMSMS%RecAnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsGasoline Range Organics<50.0												
AnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsGasoline Range Organics<50.0	Analysis Batch: 41982										Batch: 4	41930
Gasoline Range Organics (GRO)-C6-C10 mg/Kg 128 mg/Kg 128 70 - 130 Diesel Range Organics (Over C10-C28) <50.0				-								
(GR0)-C6-C10 Diesel Range Organics (Over <50.0						Qualifier		D				
Diesel Range Organics (Over C10-C28) < 50.0 U 999 1005 mg/Kg 101 70 - 130 MS		<50.0	U F2	999	1283		mg/Kg		128	70 - 130		
C10-C28) MS MS Surrogate <u>%Recovery</u> Qualifier Limits 1-Chlorooctane <u>98</u> o-Terphenyl <u>88</u> T0 - 130 Lab Sample ID: 890-3646-A-1-D MSD Matrix: Solid Analysis Batch: 41982 Sample Sample Sample Spike MSD MSD <u>%Rec</u> RPD Analyte <u>Result</u> Qualifier Added <u>Result</u> Qualifier Unit <u>D</u> %Rec Limits <u>RPD</u> Limit Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 889.7 mg/Kg 89 70 - 130 12 20 C10-C28)		~50.0		000	1005		malka		101	70 120		
MSMSSurrogate%RecoveryQualifierLimits1-Chlorooctane9870-130o-Terphenyl8870-130Lab Sample ID: 890-3646-A-1-D MSDClient Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Analysis Batch: 41982Matrix: Solid AnalyteSample SampleSpikeMSDMSDMatrix: Solid AnalyteResultQualifierAddedResultQualifierUnitD%RecRPDAnalyteResultQualifierAddedResultQualifierUnitD%RecRPDLimitGasoline Range Organics<50.0		<50.0	0	999	1005		mg/kg		101	70 - 130		
Surrogate 1-Chlorooctane o-Terphenyl%Recovery 98Qualifier 70 - 130Limits 70 - 130Lab Sample ID: 890-3646-A-1-D MSD Matrix: Solid Analysis Batch: 41982Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Prep Batch: 41930Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)Sample SolidSpike Added AddedMSD Result Qualifier MSD MSDClient Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Prep Batch: 41930	010-028)											
1-Chlorooctane9870 - 130o-Terphenyl8870 - 130Lab Sample ID: 890-3646-A-1-D MSDClient Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Analysis Batch: 41982AnalyteSample Result Gasoline Range OrganicsSolid U F2MSD%RecRPD mg/KgAnalyteResult U F2Qualifier U F2AddedResult P2Qualifier mg/KgUnit mg/KgD %Rec%RecRPD Limit 20Diesel Range Organics (Over C10-C28)<50.0		MS	MS									
o-Terphenyl 88 70-130 Lab Sample ID: 890-3646-A-1-D MSD Matrix: Solid Analysis Batch: 41982 Sample Spike MSD Sclient Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Prep Batch: 41930 Analyte Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec RPD Limit Gasoline Range Organics (GRO)-C6-C10 Out 997 889.7 mg/Kg 89 70-130 12 20	Surrogate	%Recovery	Qualifier	Limits								
Lab Sample ID: 890-3646-A-1-D MSDClient Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Aralysis Batch: 41982Analysis Batch: 41982Sample Sample Gasoline Range Organics (GRO)-C6-C10Sample Result U F2Spike Operation Operation OperationMSD VER MSDClient Sample ID: Matrix Spike Duplicate Prep Type: Total/NA RPD Limit Diesel Range Organics (Over C10-C28)Sample Sample Sample Sample Sample Spike VER Spike Added Operation Operation Spike C10-C28MSD VER Sample Sample Spike MSD NSD VER NSD N	1-Chlorooctane	98		70 - 130								
Matrix: Solid Analysis Batch: 41982Prep Type: Total/NA Prep Batch: 41930SampleSampleSpikeMSDMSDPrep Batch: 41930AnalyteResultQualifierAddedResultQualifierUnitD%RecRPDGasoline Range Organics (GRO)-C6-C10<50.0	o-Terphenyl	88		70 - 130								
Matrix: Solid Analysis Batch: 41982Prep Type: Total/NA Prep Batch: 41930SampleSampleSpikeMSDMSDPrep Batch: 41930AnalyteResultQualifierAddedResultQualifierUnitD%RecRPDGasoline Range Organics (GRO)-C6-C10<50.0	 											
Analysis Batch: 41982SampleSampleSpikeMSDMSDPrep Batch: 41930AnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsGasoline Range Organics<50.0		D MSD					CI	ient Sa	ample IC			
SampleSampleSpikeMSDMSD%RecRPDAnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsRPDLimitGasoline Range Organics<50.0												
AnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsRPDLimitGasoline Range Organics<50.0	Analysis Batch: 41982									Prep	Batch: 4	41930
Gasoline Range Organics <50.0 U F2 997 1006 F2 mg/Kg 101 70 - 130 24 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
(GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 889.7 mg/Kg 89 70 - 130 12 20 C10-C28)	Analyte						Unit	D	%Rec		RPD	Limit
Diesel Range Organics (Over <50.0 U 997 889.7 mg/Kg 89 70 - 130 12 20 C10-C28) 12 20		<50.0	U F2	997	1006	F2	mg/Kg		101	70 - 130	24	20
C10-C28)												
		<50.0	U	997	889.7		mg/Kg		89	70 - 130	12	20
MSD MSD	010-028)											
		MSD	MSD									
Surrogate %Recovery Qualifier Limits	Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane 84 70 - 130	1-Chlorooctane	84		70 - 130								
o-Terphenyl 78 70 - 130	o-Terphenyl	78		70 - 130								

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Client: Ensolum

QC Sample Results

Job ID: 890-3648-1 SDG: 03E1558091

Project/Site: PLU 27 Brushy Draw 161H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41924/1-A								Client	t Sample ID	: Method	l Blank
Matrix: Solid										p Type: S	
Analysis Batch: 42328											
		MB MB									
Analyte	R	esult Qualifier	r	RL	Unit		D	Prepared	l Anal	yzed	Dil Fac
Chloride	<	<5.00 U		5.00	mg/ł	ζg			12/22/2	2 12:07	1
Lab Sample ID: LCS 880-41924/2-A							Clie	ent Samp	ole ID: Lab	Control S	Sample
Matrix: Solid									Pre	p Type: S	Soluble
Analysis Batch: 42328											
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit		D %Rec	Limits		
Chloride			250	274.8		mg/Kg		110	90 - 110		
- Lab Sample ID: LCSD 880-41924/3-,	Α					CI	ient S	ample ID	: Lab Cont	rol Samp	le Dup
Matrix: Solid									Pre	p Type: S	Soluble
Analysis Batch: 42328											
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit		D %Rec	Limits	RPD	Limit
Chloride			250	274.8		mg/Kg		110	90 - 110	0	20
Lab Sample ID: 890-3647-A-5-B MS								Clie	nt Sample I	D: Matrix	Spike
Matrix: Solid									Pre	p Type: S	Soluble
Analysis Batch: 42328											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D %Rec	: Limits		
Chloride	198	F1	250	495.3	F1	mg/Kg		119	90 - 110		
Lab Sample ID: 890-3647-A-5-C MS	D						Client	Sample	ID: Matrix	Spike Du	plicate
Matrix: Solid										p Type: S	
Analysis Batch: 42328											
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D %Rec	: Limits	RPD	Limit
Chloride	198		250	469.1		mg/Kg		108	90 - 110	5	20

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QC Association Summary

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H Page 258 of 310

Job ID: 890-3648-1 SDG: 03E1558091

GC VOA

Prep Batch: 42420

ep Batch: 42420					
ep Balch. 42420					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-42420/5-A	Method Blank	Total/NA	Solid	5035	
nalysis Batch: 42466					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3648-1	PH05B	Total/NA	Solid	8021B	42486
MB 880-42420/5-A	Method Blank	Total/NA	Solid	8021B	42420
MB 880-42483/5-A	Method Blank	Total/NA	Solid	8021B	42483
MB 880-42486/5-A	Method Blank	Total/NA	Solid	8021B	42486
LCS 880-42486/1-A	Lab Control Sample	Total/NA	Solid	8021B	42486
LCS 880-42486/2-A	Lab Control Sample	Total/NA	Solid	8021B	42486
LCSD 880-42483/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42483
890-3646-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	42486
890-3646-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42486
rep Batch: 42483					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-42483/5-A	Method Blank	Total/NA	Solid	5035	
LCSD 880-42483/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
rep Batch: 42486					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3648-1	PH05B	Total/NA	Solid	5035	
MB 880-42486/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42486/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-42486/2-A	Lab Control Sample	Total/NA	Solid	5035	
890-3646-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3646-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 42583					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3648-1	PH05B	Total/NA	Solid	Total BTEX	
C Semi VOA					
rep Batch: 41930					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3648-1	PH05B	Total/NA	Solid	8015NM Prep	
MD 880 44030/4 A	Mathe d Diaula	T-4-1/NIA			

890-3648-1	PH05B	Total/NA	Solid	8015NM Prep
MB 880-41930/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-41930/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-41930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep
890-3646-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep
890-3646-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep

Analysis Batch: 41982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3648-1	PH05B	Total/NA	Solid	8015B NM	41930
MB 880-41930/1-A	Method Blank	Total/NA	Solid	8015B NM	41930
LCS 880-41930/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41930
LCSD 880-41930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41930
890-3646-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	41930
890-3646-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41930

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Released to Imaging: 2/19/2024 3:33:11 PM

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H Job ID: 890-3648-1

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41924

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SDG: 03E1558091

GC Semi VOA

Analysis Batch: 42190

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3648-1	PH05B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41924

LCSD 880-41924/3-A

890-3647-A-5-B MS

890-3647-A-5-C MSD

Lab Control Sample Dup

Matrix Spike Duplicate

Matrix Spike

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-3648-1	PH05B	Soluble	Solid	DI Leach		_
MB 880-41924/1-A	Method Blank	Soluble	Solid	DI Leach		8
LCS 880-41924/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-41924/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		9
890-3647-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach		3
890-3647-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		
nalysis Batch: 42328		Deep Ture	Matrix	Method	Dran Datab	
Lab Sample ID	Client Sample ID	Prep Type			Prep Batch	
890-3648-1	PH05B	Soluble	Solid	300.0	41924	
MB 880-41924/1-A	Method Blank	Soluble	Solid	300.0	41924	
LCS 880-41924/2-A	Lab Control Sample	Soluble	Solid	300.0	41924	

Soluble

Soluble

Soluble

Solid

Solid

Solid

300.0

300.0

300.0

Released to Imaging: 2/19/2024 3:33:11 PM

Project/Site: PLU 27 Brushy Draw 161H

Job ID: 890-3648-1 SDG: 03E1558091

Lab Sample ID: 890-3648-1 Matrix: Solid

Client Sample ID: PH05B Date Collected: 12/12/22 13:10 Date Received: 12/13/22 15:30

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42486	12/22/22 10:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/23/22 21:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42583	12/24/22 08:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42190	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 22:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42328	12/22/22 13:25	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

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	-				
Client: Ensolum				Job ID: 890-3648-1	
Project/Site: PLU 27 Br	rushy Draw 161H			SDG: 03E1558091	
Laboratory: Eurofi					
Unless otherwise noted, all a	analytes for this laboratory we	re covered under each acc	reditation/certification below.		
Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-25	06-30-23	5
The following analytes	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not of		Motrix	Analista		
Analysis Method Total BTEX	Prep Method	Matrix Solid	Analyte Total BTEX		
		Cond			
					8
					0
					9
					10
					13

Eurofins Carlsbad

.

Project/Site: PLU 27 Brushy Draw 161H

Job ID: 890-3648-1 SDG: 03E1558091

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:

Client: Ensolum

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Job ID: 890-3648-1 SDG: 03E1558091

Client: Ensolum Project/Site: PLU 27 Brushy Draw 161H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3648-1	PH05B	Solid	12/12/22 13:10	12/13/22 15:30	7'	4
						5
						8
						9
						12
						13

Revised Date: 08/25/2020 Rev. 2020.2		6					,	5
		430	12/22 1	en fins	indas	Aver	Jen 1	1 WARD
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		Received by: (Signature	Rece	: (Signature)	Refinguished by: (Signature)
	dittons ontrol ly negotlated.	Notce: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco, will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco, A minimum charge of \$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 of service.	fins Xenco, its affiliates an ses incurred by the client urofins Xenco, but not an	r from client company to Euro Isbility for any losses or expen or each sample submitted to E	titutes a valid purchase ord shall not assume any respo project and a charge of \$5 1	ent of samples const cost of samples and I be applied to each	ument and relinquishm rill be liable only for the um charge of \$85.00 wli	Notice: Signature of this doc of service. Eurofins Xenco w of Eurofins Xenco. A minimu
TI Sn U V Zn /7470 / 7471	4i K Se Ag SiO ₂ Na Sr Hg: 1631/245.1,	A 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N TCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	As Ba Be B Cd b As Ba Be Cd C	M Texas 11 AI Sb PLP 6010 : 8RCRA St	8RCRA 13PPM TCLP/SPLP	5020:) be analyzed	0 200.8 / 6020: and Metal(s) to be a	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
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+ Center:	Cost							
						-		
NAPP2218736445	NAR					+		
ncident #s:	Inc							
name								
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sample jars			¢ L					
EST	X		XXX	7/ 6 1	012/22 1310	s lat	20	PHOSE
Sample Comments	Sa		CI B-	Depth Grab/ # of Comp Cont	Date Time Sampled Sampled	*	ification	Sample Identification
NaUH+ASCOTOIC ACID: SAPC	NaCH+	-	Te	4.0	Corrected Temperature:	Corre		Total Containers:
Zn Acetate+NaOH: Zn		890-3648 Chain of Custody	Y	a a	Temperature Reading:	NIA	: Yes No	Sample Custody Seals:
Na 2S 2O3: NaSO 3	Na 25 2C		d	M	Correction Factor:	MA Corre	Ye	Cooler Custody Seals:
NaHSO 4: NABIS	NaHSO		es	TOM-DOJ aram	Thermometer ID:	No Thern	Yes	Samples Received Intact:
HP	H ₃ PO 4: HP			No No	No Wet Ice:	Blank: (Tel No	Temp Blank:	SAMPLE RECEIPT
H ₂ NaOH: Na	H ₂ S0 4: H ₂			the lab, if received by 4:30pm		L I		PO #:
C HNO 3: HN	HCL: HC			day received by		Cobert	Nevedith	Sampler's Name:
ool MeOH: Me	Cool: Cool		_		12	376	37-101-5	Project Location:
NO DI Water: H ₂ O	None: NO			Rush Pres.	Rou	and	DELERANA	Project Number:
Preservative Codes	Pr	ANALYSIS REQUEST		Turn Around		John Draw	PLU 27 Birushy Draw 1614	Project Name:
Other:	Deliverables: EDD ADaPT	micom	lillaensolu	pe	SA Email:		989.	Phone:
	Reporting: Level III Level III PST/UST TRRP	NM 88220	Carisbad	City, State ZIP:	02203	IN NM	Carisbad	City, State ZIP:
	State of Project:	Greene St	3104 E	Address:	Parks Huy	-	3122 1	Address:
	ram: UST/PST PRP Brownfields	O Energy Program:	XTG	Company Name:		im LLC	Ensolum	Company Name:
S	Work Order Comments	2 smett Given	60	Bill to: (if different)		Belill	Ben	Project Manager:
yeof	www.xenco.com Page	k, TX (806) 794-1296 d, NM (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	EL Paso, TX (9 Hobbs, NM (5		Xenco		
	Work Order No:	nioustori , 1, 7 (601) 240–200, Damas, 1, 7 (4, 77) 202 2000 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	idland, TX (432) 704-5440, San Antonio, TX (210) 509-33	Midland, TX (43	nt Testing	Environment Testing		
		2 TV 121002.0200	10011 3AA-A3AA Dallas	Dougton TY			fine	eurofins

12/27/2022

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.

Chain of Custody

Received by OCD: 8/17/2023 1:05:35 PM

Eurofins Carisbad 1089 N Canal St. Carlsbad, NM 88220 Phone 575-988-3199 Fax: 575-988-3199	0	chain o	of Cus	Chain of Custody Record	lecor	م					45-36	HA≱	K2n.3					6	🐝 eurofins _{Er}	Environment Testing
Client Information (Sub Contract Lab)	Sampler:			Lab PM Kramer,	™ ner, Jessica	ica					_	Carrier	Track	Tracking No(s)	(s)			_	COC No: 890-1064 1	
Client Contact Shipping/Receiving	Phone [.]			E-Mail Jessi	E-Mail Jessica Kramer@et.eurofinsus.com)er@et	euro	์เกรมร	S.Con	_	- 0	State of Origin New Mexico	f Orig Mexi	8 [,]					Page Page 1 of 1	
Company Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	ions Re	tuired (See n	ote):										Job #: 890-3648-1	
Address 1211 W Florida Ave, ,	Due Date Requested 12/19/2022	ů.						≥	nalvsis		Requested	est	ደ						ation Cod	
City Midland State Zip:	TAT Requested (days):	ys):							,									our marte a dela factore	- HCL NaOH - Zn Acetate Nitric Acid	N None O - AsNaO2 P Na2O4S
TX, 79701 Phone.	PO#					ull TPH								<u> </u>				Milledd	NaHSO4 MeOH	Na2SO3 Na2S2O3 H9SO4
432-704-5440(Tel) Email	WO #·					40D) F	oride											Mun das	Acid T	Acetone
Designet Mismon					No)	ep (Chi	TEX											DI Water	MCAA pH 4-5
Project Name: PLU 27 Brushy Draw 161H	Project #: 89000093				es or	_S_Pr	EACH	OD) B												Trizma other (specify)
Site	SSOW#				ISD (Y	015NM	BD/DI_L	Caic (M	v										Other [.]	
	:		Sample Type	Matrix (W=water S=solid	Filtered orm MS/M	10D_NM/8 10D_Calc	RGFM_28	/5035FP_0	BTEX_GO				<u>.</u>	<u></u>				Number		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G≕grab)	BT=Tissue, A=Air	Per		300_	802 ⁻	Tota									Tota	Special Instructions/Note	ctions/Note
	X	X	S (10)	Preservation Code:	109.345				lo alla		4266					il and		X		
PH05B (W) (890-3648-1)	12/12/22	13 10 Mountain		Solid		××	×	×	×							10000		4		
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						$\left - \right $												M		
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Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Oricin lated above for environment to the complexity before the complexity and the complexity accreditation complexity and the complexity and the complexity accreditation complexity and the complexity accreditation complexity accreditation complexity and the complexity accreditation of the State of Oricin lated above for environment to the complexity and the complexity and the complexity and the complexity accreditation complexity and the complexity accreditation complexity and the complexity and the complexity accreditation complexity and the complexity accreditation complexity and the complexity accreditation complexit	ent Testing South Centra above for analysis/tester	al, LLC places	the ownership	of method ana	lyte & accr	editation	compli	ance	o nodr	ur sub	contra	ct labo	Pratori		nis sa	mple	shipn	ient i	s forwarded under chain-of	f-custody If the
accreditation status should be brought to Eurothins Environment 1 esting South	Central, LLC attention im	mediately If a	all requested ac	creditations ar	e current to	date, re	tum the	signe	d Cha	in of C	ustody	' attes	ting to	said	comp	liance	б Щ	rofin	is Environment Testing Sol	uth Central LLC
Possible Hazard Identification Unconfirmed					Sam	Sample Disposal (A	le Disposal (A f Return To Client	li (A Clien	fee i	nay t	⊔eas Di	assessed if san Disposal By Lah	ed in a/ B	san	ples	are	⊔ ret	aine	fee may be assessed if samples are retained longer than 1 month)	nth) Annthe
Deliverable Requested 1 II III IV, Other (specify)	Primary Deliverable Rank 2	Ible Rank	2		Spec	Special Instructions/QC Requirements	ructio	ns/Q	CRe	quire	ment	۳.	Ĺ				ļ			
Empty Kit Relinguished by		Date			Time /	1			.		>	_	Method of Shipment:	of S	lipme	nt				
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Relinquished by	Date/Time			Company		Received by	by:								Date/Time	ïme.			Сол	Company
Custody Seals Intact: Custody Seal No ∆ Yes ∆ No						Cooler Temperature(s)	mpera	lure(s)	°Car	°C and Other Remarks	r Rem	arks.		Ļ						

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Custody Seals Intact. Custody Seal No	Relinquished by	Keninduisiied by	Keiinguisned by	Empty Kit Relinquished by	Deliverable Requested I II III IV Other (specify)	Unconfirmed	Provide Handle H	Note Since laboratory accreditations are subject to change Eurofins Environm laboratory does not currently maintain accreditation in the State of Orioin listed									PH05B (W) (890-3648-1)		Sample Identification - Client ID (Lab ID)		Sile	Project Name: PLU 27 Brushy Draw 161H	Email	Phone: 432-704-5440(Tel)	State, Zip TX 79701	City Midland	1211 W Florida Ave	Eurofins Environment Testing South Centr	Shipping/Receiving	Client Information (Sub Contract Lab)	1069 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199
•	Date/Time.	Date/Time	Date/Time:		Primary Deli		above for analysist Central LLC attentic	ent Testing South C									12/12/22	N	Sample Date		SSOW#:	Project #: 89000093	WO #:	PO #		TAT Requested (days):	Due Date Requested 12/19/2022		Phone:	Sampler.	
				Date	Primary Deliverable Rank 2		on immediately if a	entral LLC places									Mountain	X		Sample						d (days):	rested				Chain (
	Con	Con	Con				ll requested accre	the ownership of n										Preservation Code:		Sample Type (C≕comp, o											Chain of Custody Record
	Company	Company	Company				es must be shi ditations are cu	nethod, analyte					 				Solid	Code:	Ē.	Matrix (W=water S=solid, S=solid, S=solid, G=waste/oil, Id	Sampl	e (Ye:	i or No					NE	E-Mail Jessica Kramer@et.eurofinsus com	Lab PM Kramer Jessica	ody Re
S	Re	Recei	Re	Time.	Special Instructions/QC	Sample Disposal (A fee	rent to d	& accrec									×	X	2010-00	form MS/M	149-50-07			D) Full	трн			Accreditations Required (See note) NELAP - Texas	Krame	Jessi	core
Cooler Temperature(s) °C	Received by	ceived by			al Inst	Return To Client	ate ret	litation	╞──								×			5MOD_Calc				-,				ns Req Texas	r@et	<u>ы</u>	<u> </u>
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						er than	uctions will be p invironment Test	nwarded under c											Special Ir		Other [.]	EDTA EDA	DI Water	MeOH Amchior	Nitric Acid NaHSO4	A - HCL B - NaOH C 7n Acetate	Preservation Codes	Job #: 890-3648-1	Page: Page 1 of 1	COC No 890-1064 1	🔅 eurofins
F	Con	Con	Con			1 month) Mon	rovidec ing Sou	hain-of										ł	Istruc			N X S			σ v v v	o z s	M Es			- 1	m
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Ver 06/08/2021

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5

7 8 9

14

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3648 List Number: 1 Creator: Stutzman, Amanda

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

Job Number: 890-3648-1 SDG Number: 03E1558091

14

Job Number: 890-3648-1 SDG Number: 03E1558091

List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3648 List Number: 2 Creator: Teel, Brianna

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

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/23/2022 9:50:20 PM

JOB DESCRIPTION

PLU 27 BRUSHY DRAW 161H SDG NUMBER 03E1558091

JOB NUMBER

890-3649-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information



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Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

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

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

Laboratory Job ID: 890-3649-1

SDG: 03E1558091

Table of Contents

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QC Sample Results	17
QC Association Summary	21
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Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
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-	

.

Contains No Free Liquid

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Limit of Quantitation (DoD/DOE)

Dilution Factor

Duplicate Error Ratio (normalized absolute difference)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

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

Minimum Detectable Activity (Radiochemistry)

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

CNF

DER

DL

DLC

EDL

LOD

LOQ

MCL

MDA

MDC

MDL ML

MPN

MQL

NC

ND

NEG

POS

PQL PRES

QC

RER

RPD

TEF

TEQ

TNTC

RL

Dil Fac

DL, RA, RE, IN

eceived by O	CD: 8/17/2023 1:05:35 PM	Page 272 of 31	0
	Definitions/Glossary		
Client: Ensol	um	Job ID: 890-3649-1	
Project/Site:	PLU 27 BRUSHY DRAW 161H	SDG: 03E1558091	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
F2	MS/MSD RPD exceeds control limits		5
S1-	Surrogate recovery exceeds control limits, low biased.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	A		
Qualifier	Qualifier Description		
F2	MS/MSD RPD exceeds control limits		
S1+	Surrogate recovery exceeds control limits, high biased.		8
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			9
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		12
CFU	Colony Forming Unit		ГЭ

Released to Imaging: 2/19/2024 3:33:11 PM

Eurofins Carlsbad

Job ID: 890-3649-1 SDG: 03E1558091

Job ID: 890-3649-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3649-1

Receipt

The samples were received on 12/13/2022 3:30 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 9.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-42485 and analytical batch 880-42557 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41930 and analytical batch 880-41982 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-41930 and analytical batch 880-41982 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41924 and 880-41924 and analytical batch 880-42328 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: PH01 (890-3649-1), PH01A (890-3649-2), PH02 (890-3649-3), PH03 (890-3649-4) and PH04 (890-3649-5).

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

Project/Site: PLU 27 BRUSHY DRAW 161H

Job ID: 890-3649-1 SDG: 03E1558091

Client Sample ID: PH01

Date Collected: 12/12/22 09:45 Date Received: 12/13/22 15:30

Sample Depth: 1

Client: Ensolum

Toluene <0.00199	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethybenzene <0.00199	Benzene	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 02:39	
m. Xylene & p.Xylene <0.00398	Toluene	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 02:39	
b-Xylene <0.00199	Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 02:39	
Xylenes, Total < 0.00398 U 0.00398 mg/Kg 12/22/22 09:49 12/23/22 02:39 Surrogate %Recovery 4-Bromofluorobenzene (Surr) %Recovery 106 Qualifier 70 . 130 Limits 70 . 130 Prepared 12/22/22 09:49 Analyzed 12/23/22 02:39 Dil Fi Dir Fi Total STEX Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier Unit D Prepared Analyzed 12/23/22 09:9 Dil Fi Total STEX Analyte Result Qualifier RL Unit D Prepared Analyzed 12/37/20 09 Dil Fi Total STEX Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed 12/19/22 15:03 Dil Fi Total STEX Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed 12/19/22 15:2 Dil Fi Total STEX GRO)-G6-C10 Result Qualifier RL Unit D Prepared Analyzed 12/15/22 14:22 Dil Fi Total 22:22:29 Dil Fi Total 21/15/22 14:22 12/16/22 22:29 Dil Fi Total 22:15/22 14:22 12/16/22 22:29	m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/22/22 09:49	12/23/22 02:39	
Xylenes, Total < 0.00398 U 0.00398 mg/Kg 12/22/22 09.49 12/23/22 02.39 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil F 4-Bromofluorobenzene (Surr) 108 70.130 12/22/22 09.49 12/23/22 02.39 Dil F 1,4-Difluorobenzene (Surr) 108 70.130 12/22/22 09.49 12/23/22 02.39 Dil F Analyte Result Qualifier RL Unit D Prepared Analyzed Dil F Total BTEX Total BTEX Result Qualifier RL Unit D Prepared Analyzed Dil F Total TPH Result Qualifier RL Unit D Prepared Analyzed Dil F Gasoline Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil F Gasoline Range Organics Result Qualifier RL Unit D Prepared Analyzed	p-Xylene	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 02:39	
4-Bromofluorobenzene (Surr) 106 70.130 12/22/22 09.49 12/23/22 02.39 1,4-Difluorobenzene (Surr) 108 70.130 12/22/22 09.49 12/23/22 02.39 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Dil F. Total BTEX <0.00398	Xylenes, Total	<0.00398	U	0.00398			12/22/22 09:49	12/23/22 02:39	
1,4-Difluoroberzene (Surt) 108 70-130 12/22/22 09:49 12/23/22 02:39 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Dil F. Total BTEX <0.00398	Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Result Qualifier RL Unit D Prepared Analyzed Dil Fri Total BTEX <0.00398	4-Bromofluorobenzene (Surr)	106		70 - 130			12/22/22 09:49	12/23/22 02:39	
AnalyteResultQualifierRLUnitDPreparedAnalyzedDill FriTotal BTEX<0.00398	1,4-Difluorobenzene (Surr)	108		70 - 130			12/22/22 09:49	12/23/22 02:39	
Total BTEX<0.00398U0.00398mg/Kg12/23/22 09:19Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) AnalyteResult QualifierQualifierRLUnitDPreparedAnalyzed 12/19/22 15:03Dil FiMethod: SW846 8015B NM - Diesel Range Organics (DRO) (GC) AnalyteResult QualifierQualifierRLUnitDPreparedAnalyzed 12/19/22 15:03Dil FiMethod: SW846 8015B NM - Diesel Range Organics (DRO) (GC) AnalyteResult QualifierQualifierRLUnitDPrepared mg/KgAnalyzed 12/15/22 14:22Dil FiGasoline Range Organics (GRO)-C6-C10<49.9									
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)AnalyteResultQualifierRLUnitDPreparedAnalyzedDil FriTotal TPH<49.9	Analyte		-			D	Prepared		Dil Fa
AnalyteResultQualifierRLUnitDPreparedAnalyzedDil FaTotal TPH<49.9	Total BTEX	<0.00398	U	0.00398	mg/Kg			12/23/22 09:19	
Total TPH <49.9 U 49.9 mg/Kg 12/19/22 15:03 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Nuit D Prepared Analyzed Dil Fi Gasoline Range Organics (GRO)-C6-C10 Result Qualifier RL Unit D Prepared Analyzed Dil Fi G(RO)-C6-C10 0 49.9 U 49.9 mg/Kg 12/15/22 14:22 12/16/22 22:29 Dil Fi C10-C28) 0 49.9 U 49.9 mg/Kg 12/15/22 14:22 12/16/22 22:29 Dil Fi Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fi 1-Chlorocctane 98 70 - 130 12/15/22 14:22 12/16/22 22:29 Dil Fi Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Nultifier Result Qualifier RL Unit D Prepared Analyzed Dil Fi Chloride 1250 25.2 mg/Kg D Prepared Analyzed Dil Fi	Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fi Gasoline Range Organics <49.9	Amelute		•		11	_		A	
AnalyteResultQualifierRLUnitDPreparedAnalyzedDil FaGasoline Range Organics<49.9	Analyte			RL	Unit	D	Prepared	Analyzed	
AnalyteResultQualifierRLUnitDPreparedAnalyzedDil FaGasoline Range Organics<49.9	Analyte Total TPH					D	Prepared		
GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 12/15/22 14:22 12/16/22 22:29 C10-C28) OII Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 12/15/22 14:22 12/16/22 22:29 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fa 1-Chlorooctane 98 70 - 130 12/15/22 14:22 12/16/22 22:29 Dil Fa Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble 70 - 130 12/15/22 14:22 12/16/22 22:29 Dil Fa Itient Sample ID: PH01A Result Qualifier RL Unit D Prepared Analyzed Dil Fa Itient Sample ID: PH01A 1250 25.2 mg/Kg Eab Sample ID: 890-3649- Matrix: Solit	Total TPH	<49.9	U	49.9		<u> </u>	Prepared		
Diesel Range Organics (Over <49.9	Total TPH Method: SW846 8015B NM - Dies	<49.9 sel Range Orga	U Inics (DRO)	49.9	mg/Kg			12/19/22 15:03	
Oll Range Organics (Over C28-C36)<49.9U49.9mg/Kg12/15/22 14:2212/16/22 22:29Surrogate%RecoveryQualifierLimitsPreparedAnalyzedDil F1-Chlorooctane9870 - 13012/15/22 14:2212/16/22 22:29Dil Fo-Terphenyl9570 - 13012/15/22 14:2212/16/22 22:29Dil FMethod: MCAWW 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLChloride125025.2mg/KgDPreparedAnalyzedDil FIlient Sample ID: PH01ALab Sample ID: 890-3649- Matrix: SolitMatrix: SolitMatrix: Solit	Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<49.9 sel Range Orga Result	U Inics (DRO) Qualifier	49.9 (GC)	mg/Kg Unit		Prepared	12/19/22 15:03 Analyzed	
1-Chlorooctane 98 70 - 130 12/15/22 14:22 12/16/22 22:29 0-Terphenyl 95 70 - 130 12/15/22 14:22 12/16/22 22:29 Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Chloride 1250 25.2 mg/Kg Prepared Analyzed Dil Fa Ilient Sample ID: PH01A Lab Sample ID: 890-3649- Matrix: Soli	Total TPH	<49.9 sel Range Orga Result <49.9	U Inics (DRO) Qualifier U	49.9 (GC) RL 49.9	mg/Kg mg/Kg		Prepared 12/15/22 14:22	12/19/22 15:03 Analyzed 12/16/22 22:29	Dil Fac
po-Terphenyl 95 70 - 130 12/15/22 14:22 12/16/22 22:29 Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Chloride 1250 25.2 mg/Kg D Prepared Analyzed Dil Fa lient Sample ID: PH01A Lab Sample ID: 890-3649- ate Collected: 12/12/22 10:15 Matrix: Solit	Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 sel Range Orga Result <49.9 <49.9	U Anics (DRO) Qualifier U U	49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:22 12/15/22 14:22	Analyzed 12/16/22 22:29 12/16/22 22:29	Dil Fac
Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Chloride 1250 25.2 mg/Kg D Prepared Analyzed Dil Fa Ilient Sample ID: PH01A Lab Sample ID: 890-3649- ate Collected: 12/12/22 10:15 Matrix: Soli	Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery	U Qualifier U U U	49.9 (GC) RL 49.9 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 Prepared	12/19/22 15:03 Analyzed 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29	Dil Fac
Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Chloride 1250 25.2 mg/Kg 12/22/22 13:52 Dil Fa lient Sample ID: PH01A ate Collected: 12/12/22 10:15 Lab Sample ID: 890-3649- Matrix: Solit	Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery	U Qualifier U U U	49.9 (GC) RL 49.9 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 Prepared	12/19/22 15:03 Analyzed 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29	Dil Fa
Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Chloride 1250 25.2 mg/Kg 12/22/22 13:52 Dil Fa lient Sample ID: PH01A ate Collected: 12/12/22 10:15 Lab Sample ID: 890-3649- Matrix: Solit	Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery 98	U Qualifier U U U	49.9 (GC) <u>RL</u> 49.9 49.9 49.9 <u>49.9</u> <u>49.9</u> <u>70 - 130</u>	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 Prepared 12/15/22 14:22	12/19/22 15:03 Analyzed 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 12/16/22 12/16/22	Dil Fac
lient Sample ID: PH01A Lab Sample ID: 890-3649- ate Collected: 12/12/22 10:15 Matrix: Soli	Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 <49.9 <98 95	U Qualifier U U U Qualifier	49.9 (GC) <u>RL</u> 49.9 49.9 49.9 <u>49.9</u> <u>49.9</u> <u>49.9</u> <u>70 - 130</u> 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 Prepared 12/15/22 14:22	12/19/22 15:03 Analyzed 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 12/16/22 12/16/22	Dil Fac
ate Collected: 12/12/22 10:15 Matrix: Soli	Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Method: MCAWW 300.0 - Anions	 <49.9 sel Range Orga Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <9.9 <9.8 95 s, Ion Chromato 	U Qualifier U U Qualifier Qualifier	49.9 (GC) RL 49.9 49.9 49.9 49.9 <u>49.9</u> <u>49.9</u> <u>70 - 130</u> 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg mg/Kg	D	Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22	12/19/22 15:03 Analyzed 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 Analyzed 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29	Dil Fac
ate Collected: 12/12/22 10:15 Matrix: Soli	Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Method: MCAWW 300.0 - Anions Analyte	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 <49.9 <8 <95 s, Ion Chromato Result	U Qualifier U U Qualifier Qualifier	49.9 (GC) RL 49.9 49.9 49.9 49.9 <u>49.9</u> <u>50 - 130</u> 70 - 130 70 - 130 01uble RL	mg/Kg Unit mg/Kg mg/Kg mg/Kg	D	Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22	12/19/22 15:03 Analyzed 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 Analyzed Analyzed	Dil Fa Dil Fa
	Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Method: MCAWW 300.0 - Anions Analyte Chloride	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 <49.9 <8 <95 s, Ion Chromato Result	U Qualifier U U Qualifier Qualifier	49.9 (GC) RL 49.9 49.9 49.9 49.9 <u>49.9</u> <u>50 - 130</u> 70 - 130 70 - 130 01uble RL	mg/Kg Unit mg/Kg mg/Kg mg/Kg	D	Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 Prepared Prepared	12/19/22 15:03 Analyzed 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 22:29 12/16/22 12:29 12/16/22 12:29 12/16/22 12:29 12/16/22 12:29 12/16/22 12:29 12/16/22 12:29 12/16/22 12:29	Dil Fa Dil Fa

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 03:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 03:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 03:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/22/22 09:49	12/23/22 03:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 03:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/22/22 09:49	12/23/22 03:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			12/22/22 09:49	12/23/22 03:06	1

Eurofins Carlsbad

Lab Sample ID: 890-3649-1

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12/23/2022

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Page 274 of 310 Matrix: Solid

Client Sample Results

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H

Client Sample ID: PH01A

Date Collected: 12/12/22 10:15

Date Received: 12/13/22 15:30 Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	99		70 - 130			12/22/22 09:49	12/23/22 03:06	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/23/22 09:19	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
							40/40/00 45:00	
Total TPH	<50.0	U	50.0	mg/Kg			12/19/22 15:03	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					1
Method: SW846 8015B NM - Dies	sel Range Orga			mg/Kg	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)		<u>D</u>	Prepared 12/15/22 14:22		Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier U	(GC) RL	<u>Unit</u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·	Analyzed	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	unics (DRO) Qualifier U	(GC) <u>RL</u> 50.0	Unit mg/Kg	<u> </u>	12/15/22 14:22	Analyzed 12/16/22 22:51	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 	unics (DRO) Qualifier U U U	(GC) <u>RL</u> 50.0 50.0	Unit mg/Kg mg/Kg	D	12/15/22 14:22 12/15/22 14:22	Analyzed 12/16/22 22:51 12/16/22 22:51	
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga <u>Result</u> <50.0 <50.0 <50.0	unics (DRO) Qualifier U U U	(GC) <u>RL</u> 50.0 50.0 50.0	Unit mg/Kg mg/Kg	<u>D</u>	12/15/22 14:22 12/15/22 14:22 12/15/22 14:22	Analyzed 12/16/22 22:51 12/16/22 22:51 12/16/22 22:51	Dil Fac

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	725	5.01	mg/Kg			12/22/22 14:00	1

Client Sample ID: PH02

Date Collected: 12/12/22 10:35 Date Received: 12/13/22 15:30 Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 12/22/22 09:49 12/23/22 04:55 Toluene <0.00200 U 0.00200 12/22/22 09:49 12/23/22 04:55 mg/Kg 1 Ethylbenzene <0.00200 U 0.00200 mg/Kg 12/22/22 09:49 12/23/22 04:55 m-Xylene & p-Xylene <0.00401 U 0.00401 12/22/22 09:49 12/23/22 04:55 mg/Kg 1 o-Xylene <0.00200 U 0.00200 mg/Kg 12/22/22 09:49 12/23/22 04:55 1 Xylenes, Total <0.00401 U 0.00401 mg/Kg 12/22/22 09:49 12/23/22 04:55 1 %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analvzed 12/22/22 09:49 70 - 130 4-Bromofluorobenzene (Surr) 94 12/23/22 04:55 1 1,4-Difluorobenzene (Surr) 99 70 - 130 12/22/22 09:49 12/23/22 04:55 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00401 U 0.00401 12/23/22 09:19 mg/Kg 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 12/19/22 15:03 1

Eurofins Carlsbad

Job ID: 890-3649-1 SDG: 03E1558091

Matrix: Solid

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Lab Sample ID: 890-3649-2

Lab Sample ID: 890-3649-3

Matrix: Solid

Project/Site: PLU 27 BRUSHY DRAW 161H

Job ID: 890-3649-1 SDG: 03E1558091

Lab Sample ID: 890-3649-3

Lab Sample ID: 890-3649-4

Matrix: Solid

Client Sample ID: PH02

Date Collected: 12/12/22 10:35 Date Received: 12/13/22 15:30

Date Received: 12/13/22	10
Sample Depth: 1	

Client: Ensolum

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/16/22 23:13	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/16/22 23:13	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/16/22 23:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			12/15/22 14:22	12/16/22 23:13	1
o-Terphenyl	96		70 - 130			12/15/22 14:22	12/16/22 23:13	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	812		25.0	mg/Kg			12/22/22 14:09	5

Client Sample ID: PH03

Date Collected: 12/12/22 10:55

Date Received: 12/13/22 15:30

Samp	le D	ept	h:	1

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/22/22 09:49	12/23/22 05:22	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/22/22 09:49	12/23/22 05:22	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/22/22 09:49	12/23/22 05:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/22/22 09:49	12/23/22 05:22	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/22/22 09:49	12/23/22 05:22	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/22/22 09:49	12/23/22 05:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			12/22/22 09:49	12/23/22 05:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/22/22 09:49	12/23/22 05:22	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	mg/Kg			12/23/22 09:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/19/22 15:03	1
			(00)					

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 12/15/22 14:22 12/16/22 23:35 1 (GRO)-C6-C10 12/15/22 14:22 50.0 12/16/22 23:35 **Diesel Range Organics (Over** <50.0 U mg/Kg 1 C10-C28) <50.0 U 50.0 12/15/22 14:22 12/16/22 23:35 Oll Range Organics (Over C28-C36) mg/Kg 1 Dil Fac %Recovery Qualifier Limits Prepared Analyzed Surrogate 70 - 130 12/15/22 14:22 12/16/22 23:35 1-Chlorooctane 102 1 100 70 - 130 12/15/22 14:22 12/16/22 23:35 o-Terphenyl 1

Eurofins Carlsbad

		Clier	nt Sample Re	sults				
Client: Ensolum Project/Site: PLU 27 BRUSHY DRA	W 161H						Job ID: 890 SDG: 03E1	
Client Sample ID: PH03						Lab San	nple ID: 890-	
Date Collected: 12/12/22 10:55						Lap Sai		ix: Solid
Date Received: 12/13/22 15:30							Iviau	x. 3010
Sample Depth: 1								
Method: MCAWW 300.0 - Anions,	Ion Chromate	ography - S	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	714		24.8	mg/Kg			12/22/22 14:18	5
Client Sample ID: PH04						Lab Sar	nple ID: 890-	3649-5
Date Collected: 12/12/22 12:10								ix: Solid
Date Received: 12/13/22 15:30								
Sample Depth: 1								
_ Method: SW846 8021B - Volatile (Organic Comp	ounds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 05:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 05:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 05:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/22/22 09:49	12/23/22 05:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 05:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/22/22 09:49	12/23/22 05:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			12/22/22 09:49	12/23/22 05:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/22/22 09:49	12/23/22 05:50	1
- Method: TAL SOP Total BTEX - To	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/23/22 09:19	1
- Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/19/22 15:03	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/16/22 23:58	1
(GRO)-C6-C10 Discel Pango Organics (Over	-10.0		49.9	malka		12/15/22 11.22	12/16/22 22.50	1
Diesel Range Organics (Over C10-C28)	<49.9	0	49.9	mg/Kg		12/15/22 14:22	12/16/22 23:58	.1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/16/22 23:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			12/15/22 14:22	12/16/22 23:58	1
o-Terphenyl	103		70 - 130			12/15/22 14:22	12/16/22 23:58	1
_ Method: MCAWW 300.0 - Anions,	Ion Chromato	ography - S	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorida	4220		19.6	ma/Ka			12/22/22 1/1.27	10

12/22/22 14:27

Chloride

49.6

mg/Kg

Project/Site: PLU 27 BRUSHY DRAW 161H

Matrix: Solid

5

Job ID: 890-3649-1 SDG: 03E1558091

Lab Sample ID: 890-3649-6

Client Sample ID: PH04A

Date Collected: 12/12/22 12:20 Date Received: 12/13/22 15:30

Sample Depth: 3

Client: Ensolum

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Benzene <0.00199 0 0.00199 mg/Kg 12/22/22 09.49 12/23/22 06.17 Toluene <0.00199 0 0.00199 mg/Kg 12/22/22 09.49 12/23/22 06.17 Ethylbenzene <0.00199 0 0.00199 mg/Kg 12/22/22 09.49 12/23/22 06.17 xylenes <0.00199 0 0.00199 mg/Kg 12/22/22 09.49 12/23/22 06.17 Xylenes, Total <0.00398 0 0.00398 mg/Kg 12/22/22 09.49 12/23/22 06.17 Surrogate %Recovery Qualifier Limits 12/22/22 09.49 12/23/22 06.17 Analyted Recovery Qualifier Limits 12/22/22 09.49 12/23/22 06.17 Analyted Recovery Qualifier RL Unit D Prepared Analyzed 12/23/22 09.19 Method: TAL SOP Total BTEX - Total BTEX Calculation nanalyte 12/23/22 09.19									Sample Depth: 3
Analyte Result Qualifier RL Unit P Prepared Analyzed Berzene <0.00199 U 0.00199 mg/Kg 12/23/22 06.47 12/23/22 06.17 Toluene <0.00199 U 0.00199 mg/Kg 12/22/22 09.49 12/23/22 06.17 Ethylbenzene <0.00199 U 0.00199 mg/Kg 12/22/22 09.49 12/23/22 06.17 m-Xylene & p-Xylene <0.00398 U 0.00398 mg/Kg 12/22/22 09.49 12/23/22 06.17 Surrogate <0.00398 U 0.00398 mg/Kg 12/22/22 09.49 12/23/22 06.17 Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bornofluorobenzene (Surr) 110 70 - 130 12/22/22 09.49 12/23/22 06.17 Method: TAL SOP Total BTEX - Total BTEX Calculation Nanalyte Result Qualifier RL Unit D Prepared Analyzed Total BTEX <0.00398 U 0.00398 Unit D Prepared <							ounds (GC)	Organic Comp	
Toluene <0.00199	Dil Fac	Analyzed	Prepared	D	Unit			•	
Ethylbenzene <0.00199 U 0.00199 mg/Kg 12/22/22 09.49 12/23/22 06.17 m-Xylene & p-Xylene <0.00398	1	12/23/22 06:17	12/22/22 09:49		mg/Kg	0.00199	U	< 0.00199	Benzene
m-Xylene & p-Xylene <0.00398 U 0.00398 mg/kg 12/22/22 09:49 12/23/22 06:17 x-Ylene <0.00199	1	12/23/22 06:17	12/22/22 09:49		mg/Kg	0.00199	U	<0.00199	Toluene
o-Xylene <0.00199 U 0.00199 mg/Kg 12/22/22 09:49 12/23/22 06:17 Method: TAL SOP Total BTEX - Total BTEX Calculation Result Qualifier RL Unit D Prepared Analyzed Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL Unit D Prepare	1	12/23/22 06:17	12/22/22 09:49		mg/Kg	0.00199	U	<0.00199	Ethylbenzene
Xylenes, Total < 0.00398 U 0.00398 mg/Kg 12/22/22 09:49 12/23/22 06:17 Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofiliorobenzene (Surr) 110 70.130 Prepared Analyzed 1,4-Difluorobenzene (Surr) 99 70.130 Prepared Analyzed Method: TAL SOP Total BTEX - Total BTEX Calculation Result Qualifier RL Unit D Prepared Analyzed Total BTEX Result Qualifier RL Unit D Prepared Analyzed Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Manalyte Result Qualifier RL Unit D Prepared Analyzed Total TPH <50.0	1	12/23/22 06:17	12/22/22 09:49		mg/Kg	0.00398	U	<0.00398	m-Xylene & p-Xylene
Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 110 70 - 130 12/22/22 09:49 12/23/22 06:17 1.4-Difluorobenzene (Surr) 99 70 - 130 12/22/22 09:49 12/23/22 06:17 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Total BTEX <0.00398	1	12/23/22 06:17	12/22/22 09:49		mg/Kg	0.00199	U	<0.00199	o-Xylene
4-Bromofluorobenzene (Surr) 110 70 - 130 12/22/22 09:49 12/23/22 06:17 1,4-Difluorobenzene (Surr) 99 70 - 130 12/22/22 09:49 12/23/22 06:17 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Total BTEX <0.00398	1	12/23/22 06:17	12/22/22 09:49		mg/Kg	0.00398	U	<0.00398	Xylenes, Total
1.4-Diffuorobenzene (Surr)9970 - 13012/22/22 09:4912/23/22 06:17Method: TAL SOP Total BTEX - Total BTEX Calculation AnalyteResultQualifierRLUnitDPreparedAnalyzedTotal BTEX<0.00398	Dil Fac	Analyzed	Prepared			Limits	Qualifier	%Recovery	Surrogate
Method: TAL SOP Total BTEX - Total BTEX CalculationAnalyteResultQualifierRLUnitDPreparedAnalyzedTotal BTEX<0.00398	1	12/23/22 06:17	12/22/22 09:49			70 - 130			4-Bromofluorobenzene (Surr)
AnalyteResultQualifierRLUnitDPreparedAnalyzedTotal BTEX<0.00398	1	12/23/22 06:17	12/22/22 09:49			70 - 130		99	1,4-Difluorobenzene (Surr)
Total BTEX <0.00398 U 0.00398 mg/Kg 12/23/22 09:19 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Total TPH <50.0							ulation	otal BTEX Calo	- Method: TAL SOP Total BTEX - T
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Total TPH <50.0	Dil Fac	Analyzed	Prepared	D	Unit	RL	Qualifier	Result	Analyte
AnalyteResultQualifierRLUnitDPreparedAnalyzedTotal TPH<50.0	1	12/23/22 09:19			mg/Kg	0.00398	U	<0.00398	Total BTEX
AnalyteResultQualifierRLUnitDPreparedAnalyzedTotal TPH<50.0						GC)	ics (DRO) (0	l Range Organi	_ Method: SW846 8015 NM - Diese
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 12/15/22 14:22 12/17/22 00:21 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 12/15/22 14:22 12/17/22 00:21 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/15/22 14:22 12/17/22 00:21 Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 104 70 - 130 12/15/22 14:22 12/17/22 00:21 Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyzed 12/17/22 00:21 12/17/22 00:21 Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL Unit D Prepared Analyzed	Dil Fac	Analyzed	Prepared	D	Unit				
Analyte Result Qualifier RL Unit D Prepared Analyzed Gasoline Range Organics <50.0	1	12/19/22 15:03			mg/Kg	50.0	U	<50.0	Total TPH
Analyte Result Qualifier RL Unit D Prepared Analyzed Gasoline Range Organics <50.0						(GC)	nics (DRO)	sel Range Orga	_ Method: SW846 8015B NM - Dies
(GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 12/15/22 14:22 12/17/22 00:21 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/15/22 14:22 12/17/22 00:21 Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 104 70.130 12/15/22 14:22 12/17/22 00:21 o-Terphenyl 101 70.130 12/15/22 14:22 12/17/22 00:21 Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyzed Analyzed Analyte Result Qualifier RL Unit D Prepared Analyzed	Dil Fac	Analyzed	Prepared	D	Unit				
Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 12/15/22 14:22 12/17/22 00:21 C10-C28) Oll Range Organics (Over C28-C36) <50.0	1	12/17/22 00:21	12/15/22 14:22		mg/Kg	50.0	U	<50.0	5 5
Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/15/22 14:22 12/17/22 00:21 Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 104 70 - 130 12/15/22 14:22 12/17/22 00:21 o-Terphenyl 101 70 - 130 12/15/22 14:22 12/17/22 00:21 Method: MCAWW 300.0 - Anions, lon Chromatography - Soluble Mailyte Result Qualifier RL Unit D Prepared Analyzed	1	12/17/22 00:21	12/15/22 14:22		mg/Kg	50.0	U	<50.0	Diesel Range Organics (Over
1-Chlorooctane 104 70 - 130 12/15/22 14:22 12/17/22 00:21 o-Terphenyl 101 70 - 130 12/15/22 14:22 12/17/22 00:21 Method: MCAWW 300.0 - Anions, lon Chromatography - Soluble Method: Method: Method: Method: Analyte Result Qualifier RL Unit D Prepared Analyzed	1	12/17/22 00:21	12/15/22 14:22		mg/Kg	50.0	U	<50.0	,
o-Terphenyl 101 70 - 130 12/15/22 14:22 12/17/22 00:21 Method: MCAWW 300.0 - Anions, lon Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed	Dil Fac	Analyzed	Prepared			Limits	Qualifier	%Recovery	Surrogate
Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed	1	12/17/22 00:21	12/15/22 14:22			70 - 130		104	1-Chlorooctane
Analyte Result Qualifier RL Unit D Prepared Analyzed	1	12/17/22 00:21	12/15/22 14:22			70 - 130		101	o-Terphenyl
Analyte Result Qualifier RL Unit D Prepared Analyzed						bluble	graphy - So	, Ion Chromato	– Method: MCAWW 300.0 - Anions
	Dil Fac	Analyzed	Prepared	D	Unit				
<u>Chloride</u> 635 4.95 mg/Kg 12/22/22 14:35	1	12/22/22 14:35			mg/Kg	4.95		635	Chloride

Client S Date Coll

Date Rec

Sample I

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/22/22 09:49	12/23/22 06:44	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/22/22 09:49	12/23/22 06:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/22/22 09:49	12/23/22 06:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/22/22 09:49	12/23/22 06:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/22/22 09:49	12/23/22 06:44	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/22/22 09:49	12/23/22 06:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			12/22/22 09:49	12/23/22 06:44	1

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ne & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/22/22 09:49	12/23/22 06:17	1
e	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 06:17	1
s, Total	<0.00398	U	0.00398	mg/Kg		12/22/22 09:49	12/23/22 06:17	1
ate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
ofluorobenzene (Surr)			70 - 130			12/22/22 09:49	12/23/22 06:17	1
uorobenzene (Surr)	99		70 - 130			12/22/22 09:49	12/23/22 06:17	1
od: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
)		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
ΓEX	<0.00398	U	0.00398	mg/Kg			12/23/22 09:19	1
			0 0)					
od: SW846 8015 NM - Diese		Qualifier		Unit	D	Broporod	Applyrod	Dil Fac
, PH				mg/Kg		Prepared	Analyzed 12/19/22 15:03	1
'n	<50.0	0	50.0	ilig/Kg			12/19/22 15.05	I
od: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
)	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
e Range Organics	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 00:21	1
C6-C10								
Range Organics (Over	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 00:21	1
(8)								
ge Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 00:21	1
ate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
ooctane	104		70 - 130			12/15/22 14:22	12/17/22 00:21	1
enyl	101		70 - 130			12/15/22 14:22	12/17/22 00:21	1
od: MCAWW 300.0 - Anions				11-14		Dremered	Analyzad	
-		Qualifier	RL 4.95	Unit	<u>D</u>	Prepared	Analyzed 12/22/22 14:35	Dil Fac
le	635		4.95	mg/Kg			12/22/22 14.33	I
Sample ID: PH05						Lab San	nple ID: 890-	3649-7
- ollected: 12/12/22 14:35							-	x: Solid
eceived: 12/13/22 15:30								
Depth: 1								
•								
od: SW846 8021B - Volatile)					
•		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
e	<0.00198		0.00198	mg/Kg		12/22/22 09:49	12/23/22 06:44	1
•			0.00198	mg/Kg		12/22/22 09:49	12/23/22 06:44	1
nzene	<0.00198	U	0.00198	mg/Kg		12/22/22 09:49	12/23/22 06:44	1
ne & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/22/22 09:49	12/23/22 06:44	1
e	<0.00198	U	0.00198	mg/Kg		12/22/22 09:49	12/23/22 06:44	1
s, Total	<0.00396	U	0.00396	mg/Kg		12/22/22 09:49	12/23/22 06:44	1
ato	%Pecovery	Qualifier	l imite			Propared	Analyzod	Dil Eac

Client Sample Results

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H

Client Sample ID: PH05

Date Collected: 12/12/22 14:35

Date Received: 12/13/22 15:30

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130			12/22/22 09:49	12/23/22 06:44	1
Method: TAL SOP Total BTE	C - Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/23/22 09:19	1
- Method: SW846 8015 NM - Di	iesel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/19/22 15:03	1
Method: SW846 8015B NM - I	Diesel Range Orga	nics (DRO)	(GC)					
			· · · ·					

Gasoline Range Organics	<49.9	U	49.9	mg/Kg	12/15/22 14:22	12/17/22 00:43	1
(GRO)-C6-C10							
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg	12/15/22 14:22	12/17/22 00:43	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	12/15/22 14:22	12/17/22 00:43	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130		12/15/22 14:22	12/17/22 00:43	1
o-Terphenyl	103		70 - 130		12/15/22 14:22	12/17/22 00:43	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5380	50.5	mg/Kg			12/22/22 15:01	10

Client Sample ID: PH05A

Date Collected: 12/12/22 14:55 Date Received: 12/13/22 15:30 Sample Depth: 5

Lab Sample ID: 890-3649-8 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 07:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 07:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 07:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/22/22 09:49	12/23/22 07:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 07:11	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/22/22 09:49	12/23/22 07:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			12/22/22 09:49	12/23/22 07:11	1
1,4-Difluorobenzene (Surr)	103		70 - 130			12/22/22 09:49	12/23/22 07:11	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/23/22 09:19	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Matrix: Solid

5

Job ID: 890-3649-1 SDG: 03E1558091

Lab Sample ID: 890-3649-7

Project/Site: PLU 27 BRUSHY DRAW 161H

Job ID: 890-3649-1 SDG: 03E1558091

Lab Sample ID: 890-3649-9

Matrix: Solid

Client Sample ID: PH05A

Date Collected:	12/12/22 14:55
Date Received:	12/13/22 15:30

Sample Depth: 5

Client: Ensolum

_		
Method: SW846 8015B NM - Diesel	Range Organics (DRO) (GC)	
A	Descrift Occalification	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 01:05	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 01:05	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 01:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			12/15/22 14:22	12/17/22 01:05	1
o-Terphenyl	115		70 - 130			12/15/22 14:22	12/17/22 01:05	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3690	25.2	mg/Kg			12/22/22 15:10	5

Client Sample ID: PH06

Date Collected: 12/12/22 12:40

Date Received: 12/13/22 15:30 Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 07:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 07:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 07:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/22/22 09:49	12/23/22 07:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 07:38	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/22/22 09:49	12/23/22 07:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			12/22/22 09:49	12/23/22 07:38	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/22/22 09:49	12/23/22 07:38	1

Method: TAL SOP Total BTEX - Tot	al BIEX Calc	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/23/22 09:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/19/22 15:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 01:50	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 01:50	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 01:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			12/15/22 14:22	12/17/22 01:50	1
o-Terphenyl	97		70 - 130			12/15/22 14:22	12/17/22 01:50	1

		Clier	nt Sample Res	sults				
Client: Ensolum Project/Site: PLU 27 BRUSHY DRA	W 161H						Job ID: 890 SDG: 03E1	
Client Sample ID: PH06 Date Collected: 12/12/22 12:40 Date Received: 12/13/22 15:30 Sample Depth: 1						Lab Sar	nple ID: 890- Matri	3649-9 ix: Solid
Method: MCAWW 300.0 - Anions Analyte		o <mark>graphy - S</mark> Qualifier	oluble RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7980	Quaimer	100	mg/Kg			12/22/22 15:36	20
Client Sample ID: PH06A Date Collected: 12/12/22 13:10 Date Received: 12/13/22 15:30 Sample Depth: 5						Lab Sam	ple ID: 890-3 Matri	649-10 ix: Solid
Method: SW846 8021B - Volatile			·	1114	_	Description	Amelianad	
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199		0.00199	mg/Kg		12/22/22 09:49	12/23/22 08:06	1
Toluene	< 0.00199		0.00199	mg/Kg		12/22/22 09:49	12/23/22 08:06	1
Ethylbenzene	<0.00199		0.00199	mg/Kg		12/22/22 09:49	12/23/22 08:06	1
m-Xylene & p-Xylene	<0.00398		0.00398	mg/Kg		12/22/22 09:49	12/23/22 08:06	1
o-Xylene	<0.00199		0.00199	mg/Kg		12/22/22 09:49	12/23/22 08:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/22/22 09:49	12/23/22 08:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			12/22/22 09:49	12/23/22 08:06	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/22/22 09:49	12/23/22 08:06	1
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/23/22 09:19	1
Method: SW846 8015 NM - Diese			GC)					
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/19/22 15:03	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 02:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 02:12	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 02:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			12/15/22 14:22	12/17/22 02:12	1
o-Terphenyl	117		70 - 130			12/15/22 14:22	12/17/22 02:12	1
Method: MCAWW 300.0 - Anions	1			11:4	~	Bronzed	Analyzed	
Analyte	Kesult	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac

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12/22/22 15:45

Chloride

25.1

mg/Kg

Project/Site: PLU 27 BRUSHY DRAW 161H

Job ID: 890-3649-1 SDG: 03E1558091

Client Sample ID: PH07

Date Collected: 12/12/22 14:05 Date Received: 12/13/22 15:30

Sample Depth: 0.5

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 08:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 08:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 08:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/22/22 09:49	12/23/22 08:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/22/22 09:49	12/23/22 08:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/22/22 09:49	12/23/22 08:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			12/22/22 09:49	12/23/22 08:33	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/22/22 09:49	12/23/22 08:33	1
Method: TAL SOP Total BTEX - 1	Total BTEX Calo	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/23/22 09:19	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/19/22 15:03	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 02:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 02:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 02:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate 1-Chlorooctane	% Recovery 103	Qualifier	Limits 70 - 130			Prepared 12/15/22 14:22	Analyzed 12/17/22 02:35	Dil Fac

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7400		100	mg/Kg			12/22/22 15:54	20

Client Sample ID: PH07A Date Collected: 12/12/22 14:20 Date Received: 12/13/22 15:30

Sample Depth: 4

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 09:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 09:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 09:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/22/22 09:49	12/23/22 09:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/23/22 09:00	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/22/22 09:49	12/23/22 09:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			12/22/22 09:49	12/23/22 09:00	1

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Matrix: Solid

Lab Sample ID: 890-3649-12

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Lab Sample ID: 890-3649-11 Matrix: Solid

Client Sample Results

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H

Client Sample ID: PH07A

Date Collected: 12/12/22 14:20

Date Received: 12/13/22 15:30

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130			12/22/22 09:49	12/23/22 09:00	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/23/22 09:20	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/19/22 15:03	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	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 02:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 02:57	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 02:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			12/15/22 14:22	12/17/22 02:57	1
o-Terphenyl	101		70 - 130			12/15/22 14:22	12/17/22 02:57	1
Method: MCAWW 300.0 - Anions	. Ion Chromato	ography - So	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorida			<u> </u>	malka			12/22/22 16:02	1

 Chloride
 338
 5.00
 mg/Kg
 12/22/22 16:03
 1

Job ID: 890-3649-1 SDG: 03E1558091

Lab Sample ID: 890-3649-12

Matrix: Solid

5 6 7

Project/Site: PLU 27 BRUSHY DRAW 161H

Job ID: 890-3649-1 SDG: 03E1558091

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

		0504	05074	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-3629-A-1-C MS	Matrix Spike	93	104		
390-3629-A-1-D MSD	Matrix Spike Duplicate	91	0.2 S1-		
390-3649-1	PH01	106	108		- 2
390-3649-2	PH01A	105	99		
390-3649-3	PH02	94	99		
390-3649-4	PH03	98	95		
390-3649-5	PH04	99	95		
390-3649-6	PH04A	110	99		
390-3649-7	PH05	107	101		
390-3649-8	PH05A	111	103		
390-3649-9	PH06	103	102		
390-3649-10	PH06A	115	102		
390-3649-11	PH07	107	102		
390-3649-12	PH07A	106	101		
LCS 880-42485/1-A	Lab Control Sample	94	93		
MB 880-42485/5-A	Method Blank	67 S1-	94		
• · · · ·					
Surrogate Legend					

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 Lab Sample ID **Client Sample ID** (70-130) (70-130) 890-3646-A-1-C MS Matrix Spike 98 88 890-3646-A-1-D MSD Matrix Spike Duplicate 84 78 890-3649-1 PH01 98 95 890-3649-2 PH01A 117 109 890-3649-3 PH02 98 96 890-3649-4 PH03 102 100 890-3649-5 PH04 105 103 890-3649-6 PH04A 104 101 890-3649-7 PH05 107 103 890-3649-8 PH05A 115 123 890-3649-9 PH06 99 97 PH06A 117 890-3649-10 124 890-3649-11 PH07 103 100 890-3649-12 PH07A 102 101 LCS 880-41930/2-A Lab Control Sample 114 122 LCSD 880-41930/3-A Lab Control Sample Dup 114 120 MB 880-41930/1-A Method Blank 131 S1+ 133 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Lab Sample ID: MB 880-42485/5-A

QC Sample Results

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 42557							Prep Type: 1 Prep Batch	
	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/22/22 22:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/22/22 22:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/22/22 22:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/22/22 09:49	12/22/22 22:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/22/22 09:49	12/22/22 22:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/22/22 09:49	12/22/22 22:35	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130			12/22/22 09:49	12/22/22 22:35	1
1,4-Difluorobenzene (Surr)	94		70 - 130			12/22/22 09:49	12/22/22 22:35	1

Lab Sample ID: LCS 880-42485/1-A Matrix: Solid

Analysis Batch: 42557

	Spike	LCS I	LCS				%Rec	
Analyte	Added	Result (Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07863		mg/Kg		79	70 - 130	
Toluene	0.100	0.07872		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.09193		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1868		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09522		mg/Kg		95	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-3629-A Matrix: Solid Analysis Batch: 42557	1-C MS							Client		atrix Spike e: Total/NA tch: 42485
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.0996	0.08128		mg/Kg		82	70 - 130	
Toluene	<0.00201	U F1	0.0996	0.07219		mg/Kg		72	70 - 130	
Ethylbenzene	<0.00201	U	0.0996	0.08223		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.199	0.1020	F1	mg/Kg		51	70 - 130	
o-Xylene	<0.00201	U	0.0996	0.08745		mg/Kg		88	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	93		70 - 130							

70 - 130

- Lob Sample ID: 800 2620 A 1 D MSD	
1,4-Difluorobenzene (Surr) _	104
	93

Lab Sample ID: 890-3629-A-1-D MSD Matrix: Solid

Matrix: Solid									Prep 1	Type: Tot	tal/NA
Analysis Batch: 42557									Prep	Batch:	42485
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0990	0.05757	F1	mg/Kg		58	70 - 130	34	35
Toluene	<0.00201	U F1	0.0990	0.06333	F1	mg/Kg		64	70 - 130	13	35

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Job ID: 890-3649-1 SDG: 03E1558091

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42485

Released to Imaging: 2/19/2024 3:33:11 PM

12/23/2022

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H Job ID: 890-3649-1 SDG: 03E1558091

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

Lab Sample ID: 890-3629-A-1- Matrix: Solid	d MSD							Clien	nt Sa	ample ID:	Matrix Sp Prep T	ype: To	tal/N/
Analysis Batch: 42557												Batch:	
	Sample	Sam	ple	Spike	MSD	MSD					%Rec		RP
Analyte	Result	Qual	ifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Ethylbenzene	<0.00201	U		0.0990	0.07534		mg/Kg			76	70 - 130	9	3
m-Xylene & p-Xylene	< 0.00402	UF1	F2	0.198	0.1539	F2	mg/Kg			78	70 - 130	41	3
o-Xylene	<0.00201	U		0.0990	0.07738		mg/Kg			78	70 - 130	12	3
	MSD	MSD											
Surrogate	%Recovery	Qual	lifier	Limits									
4-Bromofluorobenzene (Surr)	91			70 - 130									
1,4-Difluorobenzene (Surr)	0.2	S1-		70 - 130									
/lethod: 8015B NM - Diese	el Range Or	gan	nics (DR	O) (GC)									
Lab Sample ID: MB 880-41930)/1-A									Client Sa	ample ID: M	/lethod	Blan
Matrix: Solid											Prep T	ype: To	otal/N
Analysis Batch: 41982											Prep	Batch:	4193
		MB	МВ										
Analyte	Re	sult	Qualifier	RL		Unit		D	P	repared	Analyze	ed	Dil Fa
Gasoline Range Organics		50.0		50.0		mg/Kg	g			5/22 14:22	12/16/22 1		
(GRO)-C6-C10						0.	-						
Diesel Range Organics (Over	<	50.0	U	50.0		mg/Kg	g		12/1	5/22 14:22	12/16/22 1	9:53	
C10-C28)													
Oll Range Organics (Over C28-C36)	<	50.0	U	50.0		mg/Kg	g		12/1	5/22 14:22	12/16/22 1	9:53	
		MB	МВ										
Surrogate	%Reco	-	Qualifier	Limits				_	P	repared	Analyze	ed	Dil Fa
1-Chlorooctane		133	S1+	70 - 130					12/1	5/22 14:22	12/16/22 1	9:53	
o-Terphenyl		131	S1+	70 - 130					12/1	5/22 14:22	12/16/22 1	9:53	
Lab Sample ID: LCS 880-4193	0/2-0							CI	iont	Sample	ID: Lab Co	ntrol S	amnl
Matrix: Solid	V/2-A							0	iem	oumpic	Prep T		
Analysis Batch: 41982				o ''								Batch:	4193
				Spike		LCS			_	~~ -	%Rec		
Analyte				Added		Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	961.8		mg/Kg			96	70 - 130		
(GRO)-C6-C10				1000	1010					104	70 100		
Diesel Range Organics (Over C10-C28)				1000	1013		mg/Kg			101	70 - 130		
	LCS	LCS											
Surrogate	%Recovery	Qual	lifier	Limits									
1-Chlorooctane	114		_	70 - 130									
o-Terphenyl	122			70 - 130									
Lab Sample ID: LCSD 880-419 Matrix: Solid	30/3-A						Cli	ent S	Sam	ple ID: L	ab Control Prep T		
Analysis Batch: 41982												Batch:	
Analysis Datell. 41302				Sniko		LCSD					%Rec		4193 RP
Analysis				Spike			11		~	0/ D		000	
Analyte				Added		Qualifier	Unit		<u>D</u>	%Rec	Limits	RPD	Lim
Gasoline Range Organics				1000	979.2		mg/Kg			98	70 - 130	2	2
0 0													
(GRO)-C6-C10 Diesel Range Organics (Over				1000	1008		mg/Kg			101	70 - 130	1	2

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QC Sample Results

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H

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

		<u> </u>	,,,,,		,						
Lab Sample ID: LCSD 880-4	1930/3-A					Clie	nt San	nple ID:	Lab Contro	I Sampl	e Du
Matrix: Solid									Prep T	ype: To	tal/N
Analysis Batch: 41982										Batch:	
-											
		LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	114		70 - 130								
o-Terphenyl	120		70 - 130								
Lab Sample ID: 890-3646-A-	-1-C MS							Client	Sample ID	: Matrix	Spik
Matrix: Solid									Prep T	ype: To	tal/N
Analysis Batch: 41982										Batch:	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U F2	999	1283		mg/Kg		128	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	999	1005		mg/Kg		101	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
p-Terphenyl	88		70 - 130								
Lab Sample ID: 890-3646-A-						CI	lient S	amnle II): Matrix Sp	nike Dur	licat
Matrix: Solid										ype: To	
Analysis Batch: 41982										Batch:	
Analysis Datch. 41302	Sample	Sample	Spike	MSD	MSD				%Rec	Daten.	RP
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics		U F2		1006		mg/Kg		101	70 - 130	24	2
GRO)-C6-C10	<50.0	012	551	1000	12	mg/rtg		101	70 - 150	24	4
Diesel Range Organics (Over	<50.0	U	997	889.7		mg/Kg		89	70 - 130	12	2
C10-C28)						5 5					
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	<u>84</u>		70 - 130								
o-Terphenyl	78		70 - 130								
ethod: 300.0 - Anions,	Ion Chromat	ography									
Lab Sample ID: MB 880-419	24/1-A							Client S	Sample ID:	Method	Blan
Matrix: Solid								Shorte		Type: So	
Analysis Batch: 42328									iteb	Type. O	Ciub
		MB MB									

%Rec Limits 110 90 - 110

Analyzed

12/22/22 12:07

Client Sample ID: Lab Control Sample

%Rec

Dil Fac

1

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Prep Type: Soluble

Lab Sample ID: LCS 880-41924/2-A

Analyte

Chloride

Analyte

Chloride

Matrix: Solid

Analysis Batch: 42328

RL

5.00

Spike

Added

250

Unit

LCS LCS

Qualifier

Result

274.8

mg/Kg

Unit

mg/Kg

D

D

Prepared

Result Qualifier

<5.00 U

Job ID: 890-3649-1 SDG: 03E1558091

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-41924/3 Matrix: Solid Analysis Batch: 42328	3- A					Clie	ent Sam	ple ID:	Lab Contro Prep	ol Sample Type: Se	
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	274.8		mg/Kg		110	90 - 110	0	20
– Lab Sample ID: 890-3649-6 MS									Client Sam	ple ID: F	PH04A
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 42328											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	635		248	881.9		mg/Kg		100	90 _ 110		
Lab Sample ID: 890-3649-6 MSD									Client Sam	ple ID: F	PH04A
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 42328											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	635		248	863.1		mg/Kg		92	90 - 110	2	20

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QC Association Summary

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H Job ID: 890-3649-1 SDG: 03E1558091

GC VOA

Prep Batch: 42485

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3649-1	PH01	Total/NA	Solid	5035	
890-3649-2	PH01A	Total/NA	Solid	5035	
890-3649-3	PH02	Total/NA	Solid	5035	
890-3649-4	PH03	Total/NA	Solid	5035	
890-3649-5	PH04	Total/NA	Solid	5035	
890-3649-6	PH04A	Total/NA	Solid	5035	
890-3649-7	PH05	Total/NA	Solid	5035	
890-3649-8	PH05A	Total/NA	Solid	5035	
890-3649-9	PH06	Total/NA	Solid	5035	
890-3649-10	PH06A	Total/NA	Solid	5035	
890-3649-11	PH07	Total/NA	Solid	5035	
890-3649-12	PH07A	Total/NA	Solid	5035	
MB 880-42485/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42485/1-A	Lab Control Sample	Total/NA	Solid	5035	
890-3629-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3629-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 42557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3649-1	PH01	Total/NA	Solid	8021B	42485
890-3649-2	PH01A	Total/NA	Solid	8021B	42485
890-3649-3	PH02	Total/NA	Solid	8021B	42485
890-3649-4	PH03	Total/NA	Solid	8021B	42485
890-3649-5	PH04	Total/NA	Solid	8021B	42485
890-3649-6	PH04A	Total/NA	Solid	8021B	42485
890-3649-7	PH05	Total/NA	Solid	8021B	42485
890-3649-8	PH05A	Total/NA	Solid	8021B	42485
890-3649-9	PH06	Total/NA	Solid	8021B	42485
890-3649-10	PH06A	Total/NA	Solid	8021B	42485
890-3649-11	PH07	Total/NA	Solid	8021B	42485
890-3649-12	PH07A	Total/NA	Solid	8021B	42485
MB 880-42485/5-A	Method Blank	Total/NA	Solid	8021B	42485
LCS 880-42485/1-A	Lab Control Sample	Total/NA	Solid	8021B	42485
890-3629-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	42485
890-3629-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42485

Analysis Batch: 42566

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3649-1	PH01	Total/NA	Solid	Total BTEX	
890-3649-2	PH01A	Total/NA	Solid	Total BTEX	
890-3649-3	PH02	Total/NA	Solid	Total BTEX	
890-3649-4	PH03	Total/NA	Solid	Total BTEX	
890-3649-5	PH04	Total/NA	Solid	Total BTEX	
890-3649-6	PH04A	Total/NA	Solid	Total BTEX	
890-3649-7	PH05	Total/NA	Solid	Total BTEX	
890-3649-8	PH05A	Total/NA	Solid	Total BTEX	
890-3649-9	PH06	Total/NA	Solid	Total BTEX	
890-3649-10	PH06A	Total/NA	Solid	Total BTEX	
890-3649-11	PH07	Total/NA	Solid	Total BTEX	
890-3649-12	PH07A	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H

GC Semi VOA

Prep Batch: 41930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3649-1	PH01	Total/NA	Solid	8015NM Prep	
890-3649-2	PH01A	Total/NA	Solid	8015NM Prep	
890-3649-3	PH02	Total/NA	Solid	8015NM Prep	
890-3649-4	PH03	Total/NA	Solid	8015NM Prep	
890-3649-5	PH04	Total/NA	Solid	8015NM Prep	
890-3649-6	PH04A	Total/NA	Solid	8015NM Prep	
890-3649-7	PH05	Total/NA	Solid	8015NM Prep	
890-3649-8	PH05A	Total/NA	Solid	8015NM Prep	
890-3649-9	PH06	Total/NA	Solid	8015NM Prep	
890-3649-10	PH06A	Total/NA	Solid	8015NM Prep	
890-3649-11	PH07	Total/NA	Solid	8015NM Prep	
890-3649-12	PH07A	Total/NA	Solid	8015NM Prep	
MB 880-41930/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41930/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3646-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3646-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41982

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3649-1	PH01	Total/NA	Solid	8015B NM	41930
890-3649-2	PH01A	Total/NA	Solid	8015B NM	41930
890-3649-3	PH02	Total/NA	Solid	8015B NM	41930
890-3649-4	PH03	Total/NA	Solid	8015B NM	41930
890-3649-5	PH04	Total/NA	Solid	8015B NM	41930
890-3649-6	PH04A	Total/NA	Solid	8015B NM	41930
890-3649-7	PH05	Total/NA	Solid	8015B NM	41930
890-3649-8	PH05A	Total/NA	Solid	8015B NM	41930
890-3649-9	PH06	Total/NA	Solid	8015B NM	41930
890-3649-10	PH06A	Total/NA	Solid	8015B NM	41930
890-3649-11	PH07	Total/NA	Solid	8015B NM	41930
890-3649-12	PH07A	Total/NA	Solid	8015B NM	41930
MB 880-41930/1-A	Method Blank	Total/NA	Solid	8015B NM	41930
LCS 880-41930/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41930
LCSD 880-41930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41930
890-3646-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	41930
890-3646-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41930

Analysis Batch: 42191

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3649-1	PH01	Total/NA	Solid	8015 NM	
890-3649-2	PH01A	Total/NA	Solid	8015 NM	
890-3649-3	PH02	Total/NA	Solid	8015 NM	
890-3649-4	PH03	Total/NA	Solid	8015 NM	
890-3649-5	PH04	Total/NA	Solid	8015 NM	
890-3649-6	PH04A	Total/NA	Solid	8015 NM	
890-3649-7	PH05	Total/NA	Solid	8015 NM	
890-3649-8	PH05A	Total/NA	Solid	8015 NM	
890-3649-9	PH06	Total/NA	Solid	8015 NM	
890-3649-10	PH06A	Total/NA	Solid	8015 NM	
890-3649-11	PH07	Total/NA	Solid	8015 NM	

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Job ID: 890-3649-1 SDG: 03E1558091

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H

GC Semi VOA (Continued)

Analysis Batch: 42191 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3649-12	PH07A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41924

Lab Sample ID 890-3649-1	Client Sample ID PH01	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch	
890-3649-2	PH01A	Soluble	Solid	DI Leach		8
890-3649-3	PH02	Soluble	Solid	DI Leach		0
890-3649-4	PH03	Soluble	Solid	DI Leach		0
890-3649-5	PH04	Soluble	Solid	DI Leach		9
890-3649-6	PH04A	Soluble	Solid	DI Leach		
890-3649-7	PH05	Soluble	Solid	DI Leach		
890-3649-8	PH05A	Soluble	Solid	DI Leach		
890-3649-9	PH06	Soluble	Solid	DI Leach		
890-3649-10	PH06A	Soluble	Solid	DI Leach		
890-3649-11	PH07	Soluble	Solid	DI Leach		
890-3649-12	PH07A	Soluble	Solid	DI Leach		
MB 880-41924/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-41924/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-41924/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
890-3649-6 MS	PH04A	Soluble	Solid	DI Leach		
890-3649-6 MSD	PH04A	Soluble	Solid	DI Leach		

Analysis Batch: 42328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3649-1	PH01	Soluble	Solid	300.0	41924
890-3649-2	PH01A	Soluble	Solid	300.0	41924
890-3649-3	PH02	Soluble	Solid	300.0	41924
890-3649-4	PH03	Soluble	Solid	300.0	41924
890-3649-5	PH04	Soluble	Solid	300.0	41924
890-3649-6	PH04A	Soluble	Solid	300.0	41924
890-3649-7	PH05	Soluble	Solid	300.0	41924
890-3649-8	PH05A	Soluble	Solid	300.0	41924
890-3649-9	PH06	Soluble	Solid	300.0	41924
890-3649-10	PH06A	Soluble	Solid	300.0	41924
890-3649-11	PH07	Soluble	Solid	300.0	41924
890-3649-12	PH07A	Soluble	Solid	300.0	41924
MB 880-41924/1-A	Method Blank	Soluble	Solid	300.0	41924
LCS 880-41924/2-A	Lab Control Sample	Soluble	Solid	300.0	41924
LCSD 880-41924/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41924
890-3649-6 MS	PH04A	Soluble	Solid	300.0	41924
890-3649-6 MSD	PH04A	Soluble	Solid	300.0	41924

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Job ID: 890-3649-1 SDG: 03E1558091

Job ID: 890-3649-1 SDG: 03E1558091

Lab Sample ID: 890-3649-1 Matrix: Solid

Date Collected: 12/12/22 09:45 Date Received: 12/13/22 15:30

Client Sample ID: PH01

Client: Ensolum

Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42485	12/22/22 09:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42557	12/23/22 02:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42566	12/23/22 09:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42191	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 22:29	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42328	12/22/22 13:52	SMC	EET MID

Client Sample ID: PH01A

Date Collected: 12/12/22 10:15 Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42485	12/22/22 09:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42557	12/23/22 03:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42566	12/23/22 09:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42191	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 22:51	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42328	12/22/22 14:00	SMC	EET MID

Client Sample ID: PH02

Date Collected: 12/12/22 10:35

Date Received: 12/13/22 15:30

	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	42485	12/22/22 09:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42557	12/23/22 04:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42566	12/23/22 09:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42191	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 23:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42328	12/22/22 14:09	SMC	EET MID

Client Sample ID: PH03 Date Collected: 12/12/22 10:55 Date Received: 12/13/22 15:30

	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	42485	12/22/22 09:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42557	12/23/22 05:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42566	12/23/22 09:19	AJ	EET MID

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Lab Sample ID: 890-3649-2

Matrix: Solid

	3

5

9

Lab Sample ID: 890-3649-3

Matrix: Solid

Matrix: Solid

Job ID: 890-3649-1 SDG: 03E1558091

Lab Sample ID: 890-3649-4 Matrix: Solid

Lab Sample ID: 890-3649-5

Date Collected: 12/12/22 10:55 Date Received: 12/13/22 15:30

Client Sample ID: PH03

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42191	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 23:35	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42328	12/22/22 14:18	SMC	EET MID

Client Sample ID: PH04

Date Collected: 12/12/22 12:10 Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42485	12/22/22 09:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42557	12/23/22 05:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42566	12/23/22 09:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42191	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/16/22 23:58	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	42328	12/22/22 14:27	SMC	EET MID

Client Sample ID: PH04A

Date Collected: 12/12/22 12:20 Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42485	12/22/22 09:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42557	12/23/22 06:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42566	12/23/22 09:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42191	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/17/22 00:21	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42328	12/22/22 14:35	SMC	EET MID

Client Sample ID: PH05

Date Collected: 12/12/22 14:35 Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	42485	12/22/22 09:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42557	12/23/22 06:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42566	12/23/22 09:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42191	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/17/22 00:43	SM	EET MID

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Lab Sample ID: 890-3649-6

Lab Sample ID: 890-3649-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Chronicle

Job ID: 890-3649-1 SDG: 03E1558091

Lab Sample ID: 890-3649-7

Lab Sample ID: 890-3649-8

Lab Sample ID: 890-3649-9

Client Sample ID: PH05 Date Collected: 12/12/22 14:35

Client: Ensolum

Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	42328	12/22/22 15:01	SMC	EET MID

Client Sample ID: PH05A

Date Collected: 12/12/22 14:55 Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42485	12/22/22 09:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42557	12/23/22 07:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42566	12/23/22 09:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42191	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/17/22 01:05	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42328	12/22/22 15:10	SMC	EET MID

Client Sample ID: PH06 Date Collected: 12/12/22 12:40

Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42485	12/22/22 09:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42557	12/23/22 07:38	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42566	12/23/22 09:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42191	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/17/22 01:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	42328	12/22/22 15:36	SMC	EET MID

Client Sample ID: PH06A Date Collected: 12/12/22 13:10

Date Received: 12/13/22 15:30

Lab Sample ID: 890-3649-10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42485	12/22/22 09:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42557	12/23/22 08:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42566	12/23/22 09:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42191	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/17/22 02:12	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42328	12/22/22 15:45	SMC	EET MID

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Matrix: Solid

Matrix: Solid

Matrix: Solid

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Client: Ensolum

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Client Sample ID: PH07

Date Collected: 12/12/22 14:05

Date Received: 12/13/22 15:30

Initial

Amount

5.03 g

5 mL

10.01 g

1 uL

4.98 g

50 mL

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

50 mL

Batch

42485

42557

42566

42191

41930

41982

41924

42328

Number

Dil

1

1

1

1

20

Factor

Run

Job ID: 890-3649-1 SDG: 03E1558091

Lab Sample ID: 890-3649-11

Analyst

MNR

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Prepared

or Analyzed

12/22/22 09:49

12/23/22 08:33

12/23/22 09:19

12/19/22 15:03

12/15/22 14:22

12/17/22 02:35

12/15/22 14:15

12/22/22 15:54

Matrix: Solid

Lab

EET MID

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Lab Sample ID: 890-3649-12 Matrix: Solid

Client Sample ID: PH07A Date Collected: 12/12/22 14:20

Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42485	12/22/22 09:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42557	12/23/22 09:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42566	12/23/22 09:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42191	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/17/22 02:57	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42328	12/22/22 16:03	SMC	EET MID

Laboratory References:

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

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Released to Imaging: 2/19/2024 3:33:11 PM

Accreditation/Certification Summary

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		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: PLU 27 BI	RUSHY DRAW 161	н		Job ID: 890-3649-1 SDG: 03E1558091	2
Laboratory: Eurofi		ry were covered under each acc	reditation/certification below		
Authority		Program	Identification Number	Expiration Date	
Texas The following analytes	are included in this repo	NELAP rt, but the laboratory is not certif	T104704400-22-25	06-30-23 ay include analytes for which	5
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
					8
					9
					10
					13
					14

Eurofins Carlsbad

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Method Summary

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H

Job ID: 890-3649-1 SDG: 03E1558091

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

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Sample Summary

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3649-1	PH01	Solid	12/12/22 09:45	12/13/22 15:30	1	-
890-3649-2	PH01A	Solid	12/12/22 10:15	12/13/22 15:30	3	
890-3649-3	PH02	Solid	12/12/22 10:35	12/13/22 15:30	1	
890-3649-4	PH03	Solid	12/12/22 10:55	12/13/22 15:30	1	
890-3649-5	PH04	Solid	12/12/22 12:10	12/13/22 15:30	1	
890-3649-6	PH04A	Solid	12/12/22 12:20	12/13/22 15:30	3	
890-3649-7	PH05	Solid	12/12/22 14:35	12/13/22 15:30	1	
890-3649-8	PH05A	Solid	12/12/22 14:55	12/13/22 15:30	5	
890-3649-9	PH06	Solid	12/12/22 12:40	12/13/22 15:30	1	
890-3649-10	PH06A	Solid	12/12/22 13:10	12/13/22 15:30	5	
890-3649-11	PH07	Solid	12/12/22 14:05	12/13/22 15:30	0.5	
890-3649-12	PH07A	Solid	12/12/22 14:20	12/13/22 15:30	4	
						1

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Instance CPG-1052- Email CPC1111@C/SC0114/2014 CPC1111@C/SC0114/2014 CPC1111@C/SC0114/2014 CPC1111@C/SC0114/2014 CPC1111@C/SC0114/2014 CPC1111@C/SC0114/2014 CPC1111@C/SC0114/2014 CPC111@C/SC0114/2014 CPC111@C/SC0114/2014/2014 CPC111@C/SC0114	Yes No N/A Temperature Reading Corrected Temperature Corrected Temperature: Time Date Time Sampled Sampled Sampled Sampled S 12/12/22 14055 C 200.8 / 6020: 8RCRA 13PPM 200.8 / 6020: 8RCRA 13PPM tal(s) to be analyzed TCLP / SPLM	Sample Identification Matrix Sam PHO 7 PHO 7 PHO 7 PHO 7 A PHO 7 A A A A A A A A A A A A A
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Deliverables: EDU ADaPT L Other IUEST Preservat None: NO Cool: Cool Cool: Cool H2S0 4: H2 H2S0 4: H2 H3P0 4: H2 H3P0 4: H2 H3P0 4: H2 H3P0 4: H2 NaHS0 4: NABIS NaHS0 4: NABIS NaOH+Ascorbia Sample 0 Image: No NAOH+Ascorbia NAOH+Ascorbia NAPP 22 NAOH+Ascorbia NAPP 22 NAAPP 22 NAPP 22 Image: No NAPP 22	Vo N/A Temperature Reading Corrected Temperature: Corrected Temperature: Matrix Date Time Matrix Sampled Sampled S 12/12/22 1405 J J/J/2/22 1425 J J/420 1420 J J/2/22 1425 J J/2/22 1420 J J/2/22 1420 J J/2/20 1420 J J/2/20 1420 J J/2/20 1420 J J/2/20 1420 J J/200 J/200 J J/2	Sample Identification PHO T PHO TA PHO TA Circle Method(s) and Metal(s functe: Signature of this document and relinque functions Xenco. A minimum charge of \$85.0
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bbclill@ensolum.com Deliverables: EDD ADaPI L Other: sh Pres. ANALYSIS REQUEST Preservative sh Code None: NO	32.10165, 703 876 22 Due Date:	Project Location: 32.1014
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3104 E Green St	Parks Huy	S
Company Name: XTO Every Program: UST/PST PRP Brownfields RRC	um, LLC	
Bill to: (if different) Garrett Green Work Order Comments	Behill	Project Manager: Bein
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 www.xenco.com Page 2		
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Xenco	
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Work Order No:	Environment Testing	
Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300		eurofins

12/23/2022

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Chain of Custody

Name Or All of the second of	Solid	1035 Mountain 1220 Mountain 1220 Mountain 1435 Mountain 1240 Mountain 1240 Nountain 1240 Nountain 126 Mountain 126 Mountain 127 Mountai	Primary Deliverable Rank. 2 Date DaterTime: Date/Time Date/Time:	
Alternative Alternative Alternative Alternative Alternative Alternative Alternative <td< th=""><th>Solid Solid Solid</th><th>10 35 Mountain 12 10 Mountain 12 20 Mountain 14 35 Mountain 12 40 Mountain 12 40 Mountain 12 40 Mountain 12 40 Mountain 12 80 Mountain 12 9 Mountain 12 9 Mountain 19 9 Mo</th><th>Primary Deliver Date/Time:</th><th>Relinquished by:</th></td<>	Solid	10 35 Mountain 12 10 Mountain 12 20 Mountain 14 35 Mountain 12 40 Mountain 12 40 Mountain 12 40 Mountain 12 40 Mountain 12 80 Mountain 12 9 Mountain 12 9 Mountain 19 9 Mo	Primary Deliver Date/Time:	Relinquished by:
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De Disposal (A fee may be assessed if sample shipnet is forwarded under chain-of-custory if it samples are retained longer than 1 month; SoleMOD_NM/BOLENM_S_Prep (MOD) Full TPH Convertional convertional convertional for the sample shipnet is forware to the Environment Testing South Central Lice Ideation and the sample shipnet is forware to the Environment Testing South Central Lice Ideation of the sample shipnet is forware to the Environment Testing South Central Lice Ideation of the sample shipnet is forware to the Environment Testing South Central Lice Ideation of the sample shipnet is forware to the Environment Testing South Central Lice Ideation of the sample shipnet is forware to the Environment Testing South Central Lice Ideation of the sample shipnet is forware to the Environment Testing South Central Lice Ideation of the transforment Testip Central Lice Ideation of the transformen	Solid	1035 Mountain 1055 Mountain 1210 Mountain 1435 Mountain 1240 1240 Mountain 1240 1240 Mountain 1240 1240 1240 1240 1240 1240 1240 1240		Deliverable Requested I, II III IV Other (specify)
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12/23/2022

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Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3649 List Number: 1 Creator: Clifton, Cloe

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

Job Number: 890-3649-1

SDG Number: 03E1558091 List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 3649 List Number: 2 Creator: Teel, Brianna

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

Job Number: 890-3649-1 SDG Number: 03E1558091 List Source: Eurofins Midland List Creation: 12/15/22 11:29 AM



APPENDIX F

NMOCD Notifications

Released to Imaging: 2/19/2024 3:33:11 PM

Collins, Melanie

From:	Green, Garrett J
Sent:	Wednesday, June 22, 2022 5:52 PM
То:	ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Nobui, Jennifer, EMNRD
Cc:	DelawareSpills /SM; Pennington, Shelby G
Subject:	XTO 24 Hour Notification - PLU 27 BD 102H

All,

This is notification of a release greater than 25 barrels that occurred today at the PLU 27 BD 102H near the GPS coordinates given below. Most of the fluids remained in containment and all standing fluids were recovered by vacuum truck. Details will be provided with a form C-141. Please contact us with any questions or concerns.

GPS: 32.10129,-103.87592

Thank you,

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

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

Tacoma Morrissey

From:	Green, Garrett J <garrett.green@exxonmobil.com></garrett.green@exxonmobil.com>
Sent:	Thursday, December 8, 2022 10:38 AM
То:	ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD
Cc:	DelawareSpills /SM; Tacoma Morrissey
Subject:	XTO - Sampling Notification (Week of 12/12/22 - 12/16/22)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of Dec 12, 2022.

- PLU 27 BD 161H / nAPP2217546910, nAPP2218236445, nAPP2218943007
- PLU 18 TWR Sat Battery/ nAPP2230551957
- Pickett Draw Federal #001/ NAB1919955454

Thank you,

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

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

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

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

District III

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

District IV 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

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	253338
	Action Type:
	[C-141] Release Corrective Action (C-141)

Created By		Condition Date
scott.rodgers	Final remediation and reclamation/revegetation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	2/19/2024

Action 253338