Zoho Sign Document ID: 316041F4-B_IB9.IITD3UQCSPLMGI765ZSWUDLCCJHF7F9GN7SCHG Received by OCD: 11/22/2023 11:46:43 AM

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

State of New Mexico Energy Minerals and Natural Resources Department

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

)

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Incident ID	NAPP2316446382
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

Latitude 32.20976

(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 23 Dog Town Draw 154H	Site Type Production Well
Date Release Discovered 06/02/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
С	23	24S	30E	Eddy

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

Nature and Volume of Release

Materia	I(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) 29.00	Volume Recovered (bbls) 10.00
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	X Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release During fluids v	pump swap incorrect pumping unit was closed causing were recovered. A third-party contractor has been retair	fluids to release to containment and pad, All contained ned for remediation purposes.

Sign Document ID: 316041F	4-B IB9JITD3UQCSPLMGI765ZSWUDLCCJHF7F9GN7SCHG		Page 20		
orm C-141		Incident ID	NAPP2316446382		
ige 2	Oil Conservation Division	District RP			
		Facility ID			
		Application ID			
Was this a major	If YES, for what reason(s) does the responsible party cons	sider this a major release	?		
release as defined by 19.15.29.7(A) NMAC?	A release greater than 25 barrels.				
🗶 Yes 🗌 No					
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and	l by what means (phone,	email, etc)?		
	to ocd.enviro@emnrd.nm.gov, mike.bratcher@emnrd.nm.go l.nm.gov on Tuesday, June 6, 2023 12:35 PM vie email.	ov, Robert.Hamlet@emn	rd.nm.gov, and		
L	Initial Response				
The responsible	party must undertake the following actions immediately unless they could o	create a safety hazard that wo	ıld result in injury		
► The source of the rela	ease has been stopped.				
★ The impacted area ha	as been secured to protect human health and the environmen	t.			
× Released materials ha	ave been contained via the use of berms or dikes, absorbent	pads, or other containme	ent devices.		
➤ All free liquids and r	ecoverable materials have been removed and managed appro-	opriately.			
If all the actions describe	ed above have <u>not</u> been undertaken, explain why:				
NA					
has begun, please attach	AC the responsible party may commence remediation imm a narrative of actions to date. If remedial efforts have bee nt area (see $19.15.29.11(A)(5)(a)$ NMAC), please attach all i	n successfully complete	d or if the release occurre		
	remation given shows is true and complete to the best of my knowle				

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: Signature: email: garrett.green@exxonmobil.com	Title:
OCD Only Received by: Jocelyn Harimon	Date:06/13/2023

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Location:	PLU 13 Dog Town Draw 154		
Spill Date:	6/2/2023		
	Area 1		
Approximate A	rea =	56.15	cu.ft.
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	10.00	bbls
	Area 2		
Approximate A	rea =	4267.00	sq. ft.
Average Satura	tion (or depth) of spill =	2.00	inches
Average Porosi	ty Factor =	0.15	
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	19.00	bbls
	TOTAL VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls

Total Produced Water =	29.00 bbls
TOTAL VOLUME RECOVERED	D
Total Crude Oil =	0.00 bbls
Total Produced Water =	10.00 bbls

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CONDITIONS

Action 227037

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	227037
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	6/13/2023

Zoho Sign Document ID: 316041F4-B JB9JITD3UOCSPLMGI765ZSWUDLCCJHF7F9GN7SCHG Received by OCD: 11/22/2023-11:46:43

State of New Mexico

Oil Conservation Division

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Incident ID	NAPP2316446382	
District RP		
Facility ID		
Application ID		

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?	>105 (ft bgs)
Did this release impact groundwater or surface water?	Yes X 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?	\Box Yes \mathbf{X} 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 X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	\Box Yes \mathbf{x} No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X 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.

- **x** Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- \mathbf{x} Field data

Page 3

- \mathbf{x} Data table of soil contaminant concentration data
- \mathbf{x} Depth to water determination
- x Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- X Boring or excavation logs
- x Photographs including date and GIS information
- X Topographic/Aerial maps
- x 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.

Zoho Sign Document ID: 3160/ Received by OCD: 11/22	2023 11:46:43 AM State of New Mexico	HF7F9GN7	SCHG		Page 6 of 126
Form C-141				Incident ID	NAPP2316446382
Page 4	Oil Conservation Division	1		District RP	
				Facility ID	
				Application ID	
regulations all operators a public health or the enviro failed to adequately inves addition, OCD acceptance and/or regulations.	formation given above is true and complete to the rerequired to report and/or file certain release n ponment. The acceptance of a C-141 report by the tigate and remediate contamination that pose at the of a C-141 report does not relieve the operator arrett Green	otifications e OCD doe nreat to gro of responsi 	and perform co s not relieve the undwater, surfa	prrective actions for rele operator of liability sh ce water, human health iance with any other fe inator 23	eases which may endanger ould their operations have or the environment. In
OCD Only Received by: <u>Shelly</u>	Wells		Date: <u>11/22</u>	/2023	

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Form

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State of New Mexico

Oil Conservation Division

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Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following a	items must be included in the closure report.
X A scaled site and sampling diagram as described in 19.15.29.	-
\overline{X} Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
X Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
X Description of remediation activities	
and regulations all operators are required to report and/or file certai 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	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Garrett Green	Title:SSHE Coordinator
Signature: Satt Sucn	Date: Nov 22 2023
email:garrett.green@exxonmobil.com	Telephone: <u>575-200-0729</u>
OCD Only	
Received by: <u>Shelly Wells</u>	Date: <u>11/22/2023</u>
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:



November 21, 2023

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

Re: Closure Request PLU 23 Dog Town Draw 154H Incident Number nAPP2316446382 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document assessment, delineation, and soil sampling activities performed at the PLU 23 Dog Town Draw 154H (Site). The purpose of the assessment, delineation, and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a produced water release at the Site. Based on the delineation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action for Incident Number nAPP2316446382.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 23, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.20976°, -103.85272°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management.

On June 2, 2023, during drilling operations, the incorrect pumping unit was closed while swapping pumps, causing approximately 29 barrels (bbls) of produced water to release into the temporary lined containment and onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 10 bbls of produced water were recovered from within the containment. XTO reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) and submitted on a Release Notification Form C-141 (Form C-141) on June 13, 2023. The release was assigned Incident Number nAPP2316446382.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well/soil boring with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) soil boring C-04575, located approximately 0.2 miles northeast of the Site. The soil boring was drilled during January 2022

XTO Energy, Inc. Closure Request PLU 23 Dog Town Draw 154H

to a total depth of 105 feet bgs, and no groundwater was encountered. The soil boring was subsequently plugged following NMOSE procedures. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

SITE ASSESSMENT ACTIVITIES

On September 21, 2023, once drilling operations were complete, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The temporary lined containment had been removed at the time of the Site visit. Assessment soil samples SS01 through SS03 were collected within the documented release extent, including beneath the former containment, at a depth of 0.5 feet bgs to assess sufficial soil within the release. Assessment soil samples SS04 through SS07 were collected around the release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the release. The 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. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for assessment soil samples SS01 through SS03, collected within the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for assessment samples SS04 through SS07, collected around the release extent, were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. Based on the laboratory analytical results, additional assessment activities were warranted to delineate the vertical extent of the release. Laboratory analytical results are summarized on the attached Table 1.



XTO Energy, Inc. Closure Request PLU 23 Dog Town Draw 154H

DELINEATION ACTIVITIES

On October 19, 2023, Ensolum personnel returned to the Site to delineate the vertical extent of the release. Boreholes BH01 through BH03 were advanced via hand auger at the location of assessment samples SS01 through SS03. The boreholes were advanced to depths ranging from 1-foot to 2 feet bgs. Soil from the boreholes was field screened at 1-foot intervals for VOCs and chloride. Final depth of the boreholes was determined by field screening results indicating compliance with the most stringent Table I Closure Criteria or hand auger refusal (BH03). Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. Discrete delineation soil samples were collected from the boreholes at depths ranging from 1-foot to 2 feet bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures described above. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

Laboratory analytical results for the delineation soil samples collected from boreholes BH01 through BH03 indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, the final depth delineation sample from boreholes BH01 and BH02, collected at 2 feet bgs, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and defined the vertical extent of the release. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix D. Based on laboratory analytical results for the assessment and delineation soil samples, no further remediation is warranted at this time.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the June 2, 2023, produced water release. Laboratory analytical results for the assessment and delineation soil samples, collected within and around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, the release was laterally and vertically delineated to below the most stringent Table I Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required at this time. However, an estimated 285 cubic yards of soil exceeding reclamation requirements of NMAC 19.15.29.13.D (1) remain in-place across the 3,820 square foot release area to a maximum depth of 2 feet bgs. XTO will complete final removal of the soil exceeding reclamation requirements during plugging and abandonment of the wells and final reclamation of the well pad.

Initial response efforts and delineation of the release have mitigated impacts at this Site. Depth to groundwater is greater than 100 feet bgs and no sensitive receptors were identified near the release extent. XTO believes the remedial actions completed at the Site are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number nAPP2316446382. NMOCD notifications are included in Appendix E.



XTO Energy, Inc. Closure Request PLU 23 Dog Town Draw 154H

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

Sincerely, Ensolum, LLC

née Cole

Aimee Cole Senior Managing Scientist

Ashley L. Ager

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

cc: Garrett Green, XTO Tommee Lambert, XTO Bureau of Land Management

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Table 1
 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Lithologic / Soil Sampling Logs
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Notifications







FIGURES

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Zoho Sign Document ID: 316041F4-B_IR9.IITD3UOCSPLMGI765ZSWUDLCCJHF7F9GN7SCHG

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TABLES

Released to Imaging: 2/19/2024 8:40:28 AM

Received by OCD: 11/22/2023 11:46:43 AM

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 23 Dog Town Draw 154H XTO Energy, Inc. Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Cl	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Assessment	and Delineatio	n Soil Samples	1		Ι	1
SS01	09/21/2023	0.5	<0.00199	<0.00398	<49.8	84.0	<49.8	84.0	84.0	17,400
BH01	10/19/2023	1	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1	<50.1	689
BH01A	10/19/2023	2	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	240
SS02	09/21/2023	0.5	<0.00200	<0.00399	<49.8	80.6	<49.8	80.6	80.6	7,490
BH02	10/19/2023	1	<0.00200	< 0.00399	<50.3	120	<50.3	120	120	582
BH02A	10/19/2023	2	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	231
SS03	09/21/2023	0.5	<0.00200	<0.00401	<49.6	339	<49.6	339	339	12,100
BH03	10/19/2023	1	<0.00200	<0.00401	<49.9	481	<49.9	481	481	133
SS04	09/21/2023	0.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	146
SS05	09/21/2023	0.5	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	231
SS06	10/19/2023	0.5	<0.00199	<0.00398	<49.9	56.2	<49.9	56.2	56.2	181
SS07	10/19/2023	0.5	<0.00198	<0.00396	<50.3	54.3	<50.3	54.3	54.3	182

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon NMAC: New Mexico Administrative Code





APPENDIX A

Referenced Well Records

05E 011 JAN 24 2022 M3:00



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NOL	OSE POD NO. POD1 (BH	I-01)			WELL TAG ID NO 1/a).		OSE FILE NO() C-4575			
OCAT	WELL OWNE							PHONE (OPTIC	ONAL)		
MELL I	WELL OWNE 6401 Holida			CITY Midland						state TX 79707	ZIP
GENERAL AND WELL LOCATION	WELL LOCATION		DE	GREES 32	minutes 12	SECONDS 38.03	N		REQUIRED: ONE TEN	TH OF A SECOND	
VER	(FROM GPS	5) LO	NGITUDE	103	50	58.70	w	DATUM REC	QUIRED: WGS 84		
1. GEI			NG WELL LOCATION TO S R30E, NMPM	STREET ADDRE	SS AND COMMO	N LANDMAR	KS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
	LICENSE NO. 124		NAME OF LICENSED		ckie D. Atkins	5			NAME OF WELL DR Atkins Eng	ILLING COMPANY gineering Associates, In	nc.
	DRILLING ST 1-4-20		DRILLING ENDED 1-4-2022					LE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
z	COMPLETED	WELL IS:	ARTESIAN	✓ DRY HOLE	SHALLO	OW (UNCONF	NED)		STATIC WATER LEVEL IN COMPLETED WELL (n/a		
TIO	DRILLING FL	UID:	AIR	MUD	ADDITIV	VES - SPECIF	Y:				
ORMA	DRILLING MI		ROTARY	HAMMER	CABLE	TOOL .	OTHE	R - SPECIFY:	Hollo	ow Stem Auger	
2. DRILLING & CASING INFORMATION	DEPTH (FROM	feet bgl) TO	BORE HOLE DIAM	GRADE			CON	ASING NECTION	CASING INSIDE DIAM.	CASING WALL THICKNESS	SLOT SIZE
CASI			(inches)	note se	ctions of screen		idd coup	FYPE ling diameter)	(inches)	(inches)	(inches)
30	0	105	±8.5	В	oring- HSA			-	-		
FIN											
RIL			-								
2. D											
			-								
			-								
_	DEPTH (feet hal)	DODE HOLE	115	ANNULAR S	EAL MATE	DIAT	AND	AMOUNT		
VI	FROM	TO	BORE HOLE DIAM. (inches)	1.	EL PACK SIZE				AMOUNT (cubic feet)	METHO	
ERI											
TAM											
AR			-								
INN											
3. ANNULAR MATERIAL											
							_				
FOR	OSE INTERN	VAL LICE	1					WP 2	WELL PECOPD	& LOG Warsion 06/2	0/17)
		JUG			PODNO	2 1		TDND	NO 1094	& LOG (Version 06/3	

FILE NO. C-454	POD NO.	TRN NO. 109415	
LOCATION 2-1-	245-30E-13	WELL TAG ID NO.	PAGE 1 OF 2
and the second se		N	ION

			1	44	SE DIT JAN :	24 202	
	DEPTH (f	to TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WAT BEARJ (YES/	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	1	1	Caliche, White, Dry	Y	√N	
	1	20	19	Sand, very fine grained, well graded, with caliche, Reddish Brown-Light B	rown Y	N	
Ī	20	30	20	Caliche, consolidated with silt and some gravel, Off-White, Dry	Y	√ N	
Ī	30	50	20	Sand, very fine grained, well graded, with gravel, Light Brown	Y	√ N	
	50	75	25	Sand, very fine grained, well graded, with gravel, Reddish Brown, slight n	noist Y	√N	1
1	75	105	30	Sand, very fine grained, poorly graded, Reddish Brown, slight moist	Y	√N	
					Y	N	
5					Y	N	
3					Y	N	
					Y	N	
31					Y	N	
					Y	N	
Į į					Y	N	
HIDROGEOFOGIC FOG OF WEIT					Y	N	
4					Y	N	
ł					Y	N	-
ł					Y	N	
ł	-				Y	N	
	-				Y	N	
					Y	N N	
	METHOD U	SED TO E	STIMATE VIELI	OF WATER-BEARING STRATA:	Y Y	N N	
	METHOD U			D OF WATER-BEARING STRATA: BAILER OTHER – SPECIFY:	Y	N N IATED	0.00
NO			RESULTS - ATT		Y Y TOTAL ESTIM WELL YIELD	N N IATED (gpm): HARGE N	AETHOD,
I; KIG OUFEK VISION	PUMF	TEST	TRESULTS - ATT TIME, END TH FORMATION: T	BAILER OTHER – SPECIFY:	Y Y TOTAL ESTIM WELL YIELD LUDING DISCH R THE TESTIN g drill cuttings	N N IATED (gpm): HARGE M G PERIO	METHOD, D. al depth to ten
5. IESI; KIG SUFEKVISION	PUMP WELL TEST MISCELLAN	T TEST T TEST STAF	AIR LIFT	BAILER OTHER – SPECIFY: TACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC IME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE remporary well materials removed and the soil boring backfilled usin teet below ground surface, then hydrated bentonite chips from ten fee ogs adapted from WSP on-site geologist. RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	Y Y TOTAL ESTIM WELL YIELD LUDING DISCH R THE TESTIN g drill cuttings t below ground	N N IATED (gpm): HARGE N G PERIO from tool surface	METHOD, D. al depth to ten to surface.
v	PUMP WELL TEST MISCELLAN PRINT NAM Shane Eldric THE UNDEH CORRECT F AND THE P	T TEST T TEST STAF NEOUS IN TE(S) OF E dge, Came RSIGNED RECORD C ERMIT HO	AIR LIFT	BAILER OTHER – SPECIFY: TACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE Temporary well materials removed and the soil boring backfilled using the below ground surface, then hydrated bentonite chips from ten feet ogs adapted from WSP on-site geologist. RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONStructure Files THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELLING Files THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELLING	Y Y TOTAL ESTIM WELL YIELD LUDING DISCH R THE TESTIN g drill cuttings t below ground STRUCTION OT	N N IATED (gpm): HARGE N G PERIO from too I surface	AETHOD, D. al depth to ten to surface. AN LICENSEE
SIGNATURE 5.	PUMP WELL TEST MISCELLAN PRINT NAM Shane Eldric THE UNDEH CORRECT F AND THE P	TEST TEST STAF	AIR LIFT	BAILER OTHER – SPECIFY: TACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC IME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE remporary well materials removed and the soil boring backfilled using bet below ground surface, then hydrated bentonite chips from ten feet ogs adapted from WSP on-site geologist. RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONStruction FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELL DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R	Y Y TOTAL ESTIM WELL YIELD LUDING DISCH R THE TESTIN g drill cuttings t below ground STRUCTION OT	N N IATED (gpm): HARGE N G PERIO from too I surface FHER TH GOING I THE ST/ /2022	AETHOD, D. al depth to ten to surface. AN LICENSEE
SIGNATURE 5.	PUMP WELL TEST MISCELLAN PRINT NAM Shane Eldric THE UNDEH CORRECT F AND THE P	TEST TEST STAF NEOUS IN RE(S) OF E dge, Came RSIGNED CECORD C ERMIT HO Atkin	AIR LIFT	BAILER OTHER – SPECIFY: TACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE Temporary well materials removed and the soil boring backfilled using the below ground surface, then hydrated bentonite chips from ten feet ogs adapted from WSP on-site geologist. RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONStructure Files THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELLING Files THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELLING	Y Y TOTAL ESTIM WELL YIELD LUDING DISCH R THE TESTIN g drill cuttings t below ground STRUCTION OT	N N IATED (gpm): HARGE N G PERIO from too I surface	AETHOD, D. al depth to ten to surface. AN LICENSEE
6. SIGNATURE 5.	PUMP WELL TEST MISCELLAN PRINT NAM Shane Eldric THE UNDEH CORRECT F AND THE P	T TEST T TEST STAF NEOUS IN TE(S) OF D dge, Came RSIGNED RECORD C ERMIT HO SIGNAT	AIR LIFT	BAILER OTHER – SPECIFY: TACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER Temporary well materials removed and the soil boring backfilled using bet below ground surface, then hydrated bentonite chips from ten feet ogs adapted from WSP on-site geologist. RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONStruction FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELLING DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jackie D. Atkins ER / PRINT SIGNEE NAME	Y Y TOTAL ESTIM WELL YIELD LUDING DISCH R THE TESTIN g drill cuttings t below ground STRUCTION OT	N N IATED (gpm): HARGE M G PERIO from too surface FHER TH GOING I THE ST/ /2022 DATE	AETHOD, D. al depth to ten to surface. AN LICENSEE S A TRUE ANI ATE ENGINEE
-	PUMP WELL TEST MISCELLAN PRINT NAM Shane Eldric THE UNDER CORRECT F AND THE P	T TEST T TEST STAF NEOUS IN TE(S) OF D dge, Came RSIGNED RECORD C ERMIT HO SIGNAT	AIR LIFT	BAILER OTHER – SPECIFY: TACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER Temporary well materials removed and the soil boring backfilled using bet below ground surface, then hydrated bentonite chips from ten feet ogs adapted from WSP on-site geologist. RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONStruction FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELLING DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jackie D. Atkins ER / PRINT SIGNEE NAME	Y Y TOTAL ESTIM WELL YIELD LUDING DISCH R THE TESTIN g drill cuttings t below ground STRUCTION OT EF, THE FORE ECORD WITH 1/21/	N N IATED (gpm): HARGE M G PERIO from too surface FHER TH GOING I THE ST/ /2022 DATE	AETHOD, D. al depth to ten to surface. AN LICENSEE S A TRUE ANI ATE ENGINEE

OSE_Well Record and Log_-forsign

Final Audit Report

2022-01-22

Created:	2022-01-21	
By:	Lucas Middleton (lucas@atkinseng.com)	
Status:	Signed	
Transaction ID:	CBJCHBCAABAAHFW29aZiQH1D931B0LxyAz3o1wYi88ri	

"OSE_Well Record and Log_-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2022-01-21 - 10:47:34 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2022-01-21 - 10:48:19 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2022-01-21 - 10:49:13 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2022-01-22 - 0:16:23 AM GMT - Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2022-01-22 - 0:16:23 AM GMT

05E 011 JAN 24 2022 M3:00







APPENDIX B

Photographic Log

Received by OCD: 11/22/2023 11:46:43 AM







APPENDIX C

Lithologic Soil Sampling Logs

•

			Sa	ample Name: BH01	Date: 10/19/2023	
				ite Name: PLU 23 Dog Town Draw		
	IN D	SOLU		ncident Number: nAPP231644638		
				bb Number: 03C1558250		
LITHO		OIL SAMPLING LOG		Logged By: Connor Whitman Method: Hand auger		
Coordinates:	-			ole Diameter: 6"	Total Depth: 2' bgs	
	-	cted with HACH Chloride Test St of soil to distilled water. +40% (ID for chloride and vapor, respect orrection factor included.	ively. Chloride test	
Moisture <u>Content</u> Chloride (ppm) Vapor	(ppm) Staining Sample ID		USCS/Rock Symbol	Lithologic Descriptions		
D 34529 36.2	2 Y SS01		ССНЕ С	CALICHE, pad material,		
D 532 0.0	N BH01					
D 212 0.0	N BH01A	01A 2 2 2 Total dept				

•

								Sample Name: BH02	Date: 10/19/2023	
L						LU		Incident Number: nAPP23164463		
								Job Number: 03C1558250		
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: Connor Whitman	Method: Hand auger			
							Hole Diameter: 6"	Total Depth: 2' bgs		
							6 chloride	PID for chloride and vapor, respe correction factor included.	ctively. Chloride test	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions	
D	15876	21.7	Y	SS02	0.5	0	CCHE	CALICHE, pad material,		
D	572	0.0	N	BH02	1	1				
D	273	0.0	Ν	BH02A	2	2				
						Total der	oth	feet bøs		

•

P							Sample Name: BH03	Date: 10/19/2023
							Site Name: PLU 23 Dog Town Dra	
			>				Incident Number: nAPP23164463	
							Job Number: 03C1558250	-
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: Connor Whitman Method: Hand auger		
Coordinates:						Hole Diameter: 6"	Total Depth: 1' bgs	
		-				•	PID for chloride and vapor, respe- correction factor included.	ctively. Chloride test
Content Content Chloride (ppm)					Lithologic Descriptions			
D >34529		Ŷ	SS03	0.5		CCHE	CALICHE, pad material,	
D <168	0	Ν	BH03	1 _	_ 1		foot bgs/refual with hand a	





APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 10/2/2023 4:10:47 PM

JOB DESCRIPTION

PLU 23 Dog Town Draw 154H SDG NUMBER 32.20976,-103.85272

JOB NUMBER

890-5323-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contect information



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 10/2/2023 4:10:47 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

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H Laboratory Job ID: 890-5323-1 SDG: 32.20976,-103.85272

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

Indicates the analyte was analyzed for but not detected.

MS and/or MSD recovery exceeds control limits.

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 23 Dog Town Draw 154H

Qualifier Description

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Job ID: 890-5323-1	
SDG: 32.20976,-103.85272	2
	3
	4
	5

Qualifiers **GC VOA** Qualifier

*+

F1

U

GC Semi VOA		
Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low biased.	
*1	LCS/LCSD RPD exceeds control limits.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	

Glossary

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

Case Narrative

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

(QC) is further explained in narrative comments.

to a dilution or otherwise noted in the narrative.

Job ID: 890-5323-1 SDG: 32.20976,-103.85272

Job ID: 890-5323-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5323-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/22/2023 8:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-5323-1), SS02 (890-5323-2) and SS03 (890-5323-3).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-63582 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The matrix spike (MS) and/or matrix spike duplicate (MSD) recovery for preparation batch 880-63241 and analytical batch 880-63582 was outside control limits for the following analyte(s): m-Xylene & p-Xylene. Results may be biased high because this analyte is a common laboratory solvent and contaminant.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-63241 and analytical batch 880-63582 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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 spiking solution was inadvertently omitted during the extraction process for the laboratory control sample duplicate (LCSD) associated with preparation batch 880-63229; therefore, percent recoveries are unavailable. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-63262 and analytical batch 880-63423 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

4

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Client Sample Results

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Client Sample ID: SS01

Date Collected: 09/21/23 11:30 Date Received: 09/22/23 08:08

Sample Depth: 0.5'

<0.00398 <0.00199 <0.00398 %Recovery	U U U F1 U *+ U	0.00199 0.00199 0.00199 0.00398 0.00199 0.00398	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		09/25/23 15:04 09/25/23 15:04 09/25/23 15:04 09/25/23 15:04 09/25/23 15:04	09/30/23 10:05 09/30/23 10:05 09/30/23 10:05 09/30/23 10:05	
<0.00199 <0.00398 <0.00199 <0.00398 %Recovery	U U F1 U *+ U	0.00199 0.00398 0.00199	mg/Kg mg/Kg mg/Kg		09/25/23 15:04 09/25/23 15:04	09/30/23 10:05	
<0.00398 <0.00199 <0.00398 %Recovery	U F1 U *+ U	0.00398 0.00199	mg/Kg mg/Kg		09/25/23 15:04		
<0.00199 <0.00398 %Recovery	U *+ U	0.00199	mg/Kg			00/30/23 10·0F	
<0.00398 %Recovery	U				00/25/22 45:24	09/00/20 10.00	
%Recovery		0.00398	ma/Ka		09/25/23 15:04	09/30/23 10:05	
			my/rxy		09/25/23 15:04	09/30/23 10:05	
~~	Qualifier	Limits			Prepared	Analyzed	Dil Fa
86		70 - 130			09/25/23 15:04	09/30/23 10:05	
77		70 - 130			09/25/23 15:04	09/30/23 10:05	
BTEX Calo	culation						
		RL	Unit	D	Prepared	Analyzed	Dil Fa
<0.00398	U	0.00398	mg/Kg			09/30/23 10:05	
nge Organ	ics (DRO) (GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
84.0		49.8	mg/Kg			09/26/23 03:37	
		(GC)					
		RL	Unit	D	Prepared	Analyzed	Dil Fa
<49.8	U *- *1	49.8	mg/Kg		09/25/23 12:16	09/26/23 03:37	
84.0	*- *1	49.8	mg/Kg		09/25/23 12:16	09/26/23 03:37	
<49.8	U	49.8	mg/Kg		09/25/23 12:16	09/26/23 03:37	
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
79		70 - 130			09/25/23 12:16	09/26/23 03:37	
86		70 - 130			09/25/23 12:16	09/26/23 03:37	
omatograp	hy - Solubl	e					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
17400		100	mg/Kg			09/27/23 15:43	2
					Lab San	nple ID: 890-	5323-
						Matri	x: Soli
	BTEX Cala Result <0.00398 nge Organ Result 84.0 cange Orga Result <49.8 84.0 <49.8 %Recovery 79 86 comatograp Result 17400	BTEX Calculation Result Qualifier <0.00398	BTEX Calculation Result Qualifier RL <0.00398	BTEX Calculation Result Qualifier RL Unit <0.00398	BTEX Calculation Result Qualifier RL Unit D <0.00398	BTEX Calculation Result Qualifier RL Unit D Prepared <0.00398	BTEX Calculation RL Unit D Prepared Analyzed <0.00398

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		09/25/23 15:04	09/30/23 10:26	1		
Toluene	<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 10:26	1		
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 10:26	1		
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/25/23 15:04	09/30/23 10:26	1		
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		09/25/23 15:04	09/30/23 10:26	1		
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/25/23 15:04	09/30/23 10:26	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	90		70 - 130			09/25/23 15:04	09/30/23 10:26	1		

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Job ID: 890-5323-1 SDG: 32.20976,-103.85272

Lab Sample ID: 890-5323-1

Matrix: Solid

5

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Matrix: Solid

5

Client Sample Results

Job ID: 890-5323-1 SDG: 32.20976,-103.85272

Lab Sample ID: 890-5323-2

Client Sample ID: SS02

Project/Site: PLU 23 Dog Town Draw 154H

Date Collected: 09/21/23 11:35 Date Received: 09/22/23 08:08

Sample Depth: 0.5'

Client: Ensolum

urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
,4-Difluorobenzene (Surr)	73		70 - 130			09/25/23 15:04	09/30/23 10:26	1
lethod: TAL SOP Total BTEX - To	tal BTEX Calo	culation						
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00399	U	0.00399	mg/Kg			09/30/23 10:26	1
lethod: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal TPH	80.6		49.8	mg/Kg			09/26/23 03:58	1
lethod: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC)					
nalyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
asoline Range Organics		U *- *1	49.8	mg/Kg		09/25/23 12:16	09/26/23 03:58	1
GRO)-C6-C10								
iesel Range Organics (Over	80.6	*- *1	49.8	mg/Kg		09/25/23 12:16	09/26/23 03:58	
10-C28)								
II Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/25/23 12:16	09/26/23 03:58	1
urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
-Chlorooctane	77		70 - 130			09/25/23 12:16	09/26/23 03:58	1
-Terphenyl	82		70 - 130			09/25/23 12:16	09/26/23 03:58	1
lethod: EPA 300.0 - Anions, Ion (Chromatograg	hy - Solub	le					
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
hloride	7490		50.1	mg/Kg			09/27/23 15:50	10
ient Sample ID: SS03							nple ID: 890-	

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 10:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 10:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 10:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/25/23 15:04	09/30/23 10:47	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		09/25/23 15:04	09/30/23 10:47	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/25/23 15:04	09/30/23 10:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			09/25/23 15:04	09/30/23 10:47	1
1,4-Difluorobenzene (Surr)	74		70 - 130			09/25/23 15:04	09/30/23 10:47	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/30/23 10:47	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

Client Sample Results

5

Job ID: 890-5323-1 SDG: 32.20976,-103.85272

Lab Sample ID: 890-5323-3

Client Sample ID: SS03

Project/Site: PLU 23 Dog Town Draw 154H

Date Collected: 09/21/23 11:40 Date Received: 09/22/23 08:08

Sample Depth: 0.5'

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.6	U *- *1	49.6	mg/Kg		09/25/23 12:16	09/26/23 04:18	1
(GRO)-C6-C10								
Diesel Range Organics (Over	339	*- *1	49.6	mg/Kg		09/25/23 12:16	09/26/23 04:18	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		09/25/23 12:16	09/26/23 04:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			09/25/23 12:16	09/26/23 04:18	1
o-Terphenyl	85		70 - 130			09/25/23 12:16	09/26/23 04:18	1
Method: EDA 200.0 Anione Jon	Chromatograp	hy - Solubl	е					
wethou: EPA JUU.U - Anions. Ion		· · · · · · · · · · · · · · · · · · ·			_			
Method: EPA 300.0 - Anions, Ion Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Surrogate Summary

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

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

_				Percent Surrogate Recovery (Acceptance Limits)	4
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-5323-1	SS01	86	77		
890-5323-1 MS	SS01	118	111		6
890-5323-1 MSD	SS01	118	109		
890-5323-2	SS02	90	73		7
890-5323-3	SS03	89	74		
LCS 880-63241/1-A	Lab Control Sample	125	114		8
LCSD 880-63241/2-A	Lab Control Sample Dup	120	105		0
MB 880-63241/5-A	Method Blank	74	86		0
MB 880-63561/5-A	Method Blank	70	98		3
Surrogate Legend					10

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	1
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-5312-A-1-C MS	Matrix Spike	91	84	·	
890-5312-A-1-D MSD	Matrix Spike Duplicate	91	86		
890-5323-1	SS01	79	86		
890-5323-2	SS02	77	82		
890-5323-3	SS03	80	85		
LCS 880-63229/2-A	Lab Control Sample	93	99		
LCSD 880-63229/3-A	Lab Control Sample Dup	6 S1-	3 S1-		
MB 880-63229/1-A	Method Blank	94	111		
Surrogato Lagond					

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 890-5323-1 SDG: 32.20976,-103.85272

Prep Type: Total/NA

Prep Type: Total/NA
QC Sample Results

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63241/5-A

Matrix: Solid Analysis Batch: 63582

MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 09:44	1
<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 09:44	1
<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 09:44	1
<0.00400	U	0.00400	mg/Kg		09/25/23 15:04	09/30/23 09:44	1
<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 09:44	1
<0.00400	U	0.00400	mg/Kg		09/25/23 15:04	09/30/23 09:44	1
МВ	МВ						
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
74		70 - 130			09/25/23 15:04	09/30/23 09:44	1
86		70 - 130			09/25/23 15:04	09/30/23 09:44	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	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

Lab Sample ID: LCS 880-63241/1-A Matrix: Solid

Analysis Batch: 63582

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1056		mg/Kg		106	70 - 130
Toluene	0.100	0.1028		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09895		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2063		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1377	*+	mg/Kg		138	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: LCSD 880-63241/2-A

Matrix: Solid

						Prep	Batch:	63241
Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.1011		mg/Kg		101	70 - 130	4	35
0.100	0.1004		mg/Kg		100	70 - 130	2	35
0.100	0.09835		mg/Kg		98	70 - 130	1	35
0.200	0.2043		mg/Kg		102	70 - 130	1	35
0.100	0.1162		mg/Kg		116	70 - 130	17	35
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.1011 0.100 0.1004 0.100 0.09835 0.200 0.2043	Added Result Qualifier 0.100 0.1011	Added Result Qualifier Unit 0.100 0.1011 mg/Kg 0.100 0.1004 mg/Kg 0.100 0.09835 mg/Kg 0.200 0.2043 mg/Kg	Added Result Qualifier Unit D 0.100 0.1011 mg/Kg mg/Kg 0.100 0.1004 mg/Kg 0.100 0.09835 mg/Kg 0.200 0.2043 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1011 mg/Kg 101 0.100 0.1004 mg/Kg 100 0.100 0.09835 mg/Kg 98 0.200 0.2043 mg/Kg 102	Spike LCSD LCSD %Rec Added Result Qualifier Unit D %Rec Limits 0.100 0.1011 mg/Kg 101 70 - 130 0.100 0.1004 mg/Kg 100 70 - 130 0.100 0.09835 mg/Kg 98 70 - 130 0.200 0.2043 mg/Kg 102 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.1011 mg/Kg 101 70 - 130 4 0.100 0.1004 mg/Kg 100 70 - 130 2 0.100 0.09835 mg/Kg 98 70 - 130 1 0.200 0.2043 mg/Kg 102 70 - 130 1

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-5323-1 MS Matrix: Solid

Analysis Batch: 63582

Analysis Batch: 63582									Prep Batch: 63241
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00199	U	0.0998	0.09021		mg/Kg		90	70 - 130
Toluene	<0.00199	U	0.0998	0.08420		mg/Kg		84	70 - 130

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Client Sample ID: SS01

Prep Type: Total/NA

5 6

7

Job ID: 890-5323-1 SDG: 32.20976,-103.85272

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 63241

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63241

	%Rec	
%Rec	Limits	
106	70 - 130	
103	70 - 130	
99	70 - 130	
103	70 - 130	
138	70 - 130	

Prep Type: Total/NA

MS MS

MSD MSD

Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Result

0.07776

0.1505

0.08123

Spike

Added

0.0998

0.200

0.0998

Limits

70 - 130

70 - 130

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Lab Sample ID: 890-5323-1 MS

Analysis Batch: 63582

4-Bromofluorobenzene (Surr)

Analysis Batch: 63582

Lab Sample ID: 890-5323-1 MSD

1,4-Difluorobenzene (Surr)

Matrix: Solid

Analyte

o-Xylene

Surrogate

Matrix: Solid

Ethylbenzene

m-Xylene & p-Xylene

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

Sample Sample

<0.00199

%Recovery

<0.00398 UF1

<0.00199 U*+

118

111

MS MS

Sample Sample

Qualifier

Result Qualifier

U

Job ID: 890-5323-1 SDG: 32.20976,-103.85272

Client Sample ID: SS01

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

78

75

81

D

Prep Type: Total/NA

Prep Batch: 63241

5
7
8
9

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 63241

Client Sample ID: SS0
Prep Type: Total/N
Prep Batch: 6324

6

6

4

9

10

35

35

35

35

35

%Rec RPD RPD Limit

Result Qualifier Result Qualifier Analyte Added %Rec Limits Unit D Benzene <0.00199 U 0.0996 0.08527 mg/Kg 86 70 - 130 0.07934 Toluene < 0.00199 U 0.0996 mg/Kg 80 70 - 130 Ethylbenzene < 0.00199 U 0.0996 0.07440 75 70 - 130 mg/Kg 0.199 m-Xylene & p-Xylene <0.00398 UF1 0.1378 F1 mg/Kg 69 70 - 130 0.0996 0.07353 74 70 - 130 o-Xylene <0.00199 U*+ mg/Kg MSD MSD Surrogate Qualifier Limits %Recovery

Spike

4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: MB 880-63561/5-A Matrix: Solid Analysis Batch: 63582

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 63561

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		09/28/23 17:43	09/29/23 23:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/23 17:43	09/29/23 23:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/23 17:43	09/29/23 23:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/28/23 17:43	09/29/23 23:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/23 17:43	09/29/23 23:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/23 17:43	09/29/23 23:06	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130			09/28/23 17:43	09/29/23 23:06	1
1,4-Difluorobenzene (Surr)	98		70 - 130			09/28/23 17:43	09/29/23 23:06	1

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

Lab Sample ID: MB 880-63229/1-A Matrix: Solid Analysis Batch: 63178	МВ	МВ				Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	Total/NA
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	 mg/Kg		09/25/23 12:16	09/25/23 21:10	1
(GRO)-C6-C10								

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Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Job ID: 890-5323-1 SDG: 32.20976,-103.85272

Lab Sample ID: MB 880-63229	/1- A								Client Sa	ample ID: Me	thod	Blank
Matrix: Solid									onent of			
										Prep Typ		
Analysis Batch: 63178										Prep B	atcn:	63225
		MB MB										
Analyte		Sult Qualifier	RL		Unit		D		repared	Analyzed		Dil Fac
Diesel Range Organics (Over	<5	0.0 U	50.0		mg/l	Kg		09/2	5/23 12:16	09/25/23 21:	10	
C10-C28)			50.0					00/0	E/00 40 40	00/05/00 04	40	
Oll Range Organics (Over C28-C36)	<5	0.0 U	50.0		mg/l	Kg		09/2	5/23 12:16	09/25/23 21:	10	
		MB MB										
Surrogate	%Recov	ery Qualifier	Limits					Р	repared	Analyzed		Dil Fac
1-Chlorooctane		94	70 - 130						5/23 12:16	09/25/23 21:		
o-Terphenyl		111	70 - 130						5/23 12:16	09/25/23 21:		
e respirenzi			101100					00/2	0,20 12.10	00/20/20 27:	10	
Lab Sample ID: LCS 880-63229	9/2-A						С	lient	Sample	ID: Lab Cont	trol S	ample
Matrix: Solid										Prep Typ		
Analysis Batch: 63178										Prep B		
Analysis Buton. 00170			Spike	1.05	LCS					%Rec		50223
Analyte			Added		Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	905.7	Quanner			_		70 - 130		
(GRO)-C6-C10			1000	903.7		mg/Kg			91	10 - 130		
Diesel Range Organics (Over			1000	963.3		mg/Kg			96	70 - 130		
C10-C28)			1000	000.0								
	LCS	LCS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	93		70 - 130									
o-Terphenyl	99		70 - 130									
Matrix: Solid Analysis Batch: 63178			Spike	LCSD	LCSD					Prep Typ Prep Ba %Rec		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Gasoline Range Organics (GRO)-C6-C10			1000	264.5	*- *1	mg/Kg		_	26	70 - 130	110	20
Diesel Range Organics (Over			1000	33 12	J *- *1	mg/Kg			3	70 - 130	187	20
C10-C28)			1000	00.12	0	ing/itg			Ũ	101100	101	2.
	LCSD											
Surrogate	%Recovery		Limits									
1-Chlorooctane	6	S1-	70 - 130									
o-Terphenyl	3	S1-	70 - 130									
Lab Sample ID: 890-5312-A-1-0	CMS								Client S	Sample ID: N	latrix	Spike
Matrix: Solid										Prep Typ		
Analysis Batch: 63178										Prep B		
	Sample	Sample	Spike	MS	MS					%Rec		
	Result	-	Added		Qualifier	Unit		D	%Rec	Limits		
Analvte			1010	744.6		mg/Kg		-	74	70 - 130		
Gasoline Range Organics	<49.8	5 - 1										
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.8 <49.8		1010	769.6		mg/Kg			76	70 - 130		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)			1010	769.6		mg/Kg			76	70 - 130		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		J *- *1	1010	769.6		mg/Kg			76	70 - 130		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.8	J *- *1 ИS	1010 <i>Limits</i>	769.6		mg/Kg			76	70 - 130		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 MS	J *- *1 ИS		769.6		mg/Kg			76	70 - 130		

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o-Terphenyl

70 - 130

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

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

	1-D MSD					c	lient S	Sample ID	D: Matrix Sp	oike Dur	olicate
Matrix: Solid										Type: To	
Analysis Batch: 63178										Batch:	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *- *1	1010	757.1		mg/Kg		75	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U *- *1	1010	792.6		mg/Kg		78	70 - 130	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	91		70 - 130								
o-Terphenyl	86		70 - 130								
Method: 300.0 - Anions,	Ion Chromat	ography									
Lab Sample ID: MB 880-632	62/1-A							Client S	Sample ID:	Method	Blank
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 63423											
		MB MB									
Analyte	Re	esult Qualifier		RL	Unit		DI	Prepared	Analyz	ed	Dil Fac

Lab Sample ID: LCS 880-63262/2-A Matrix: Solid Analysis Batch: 63423

<5.00 U

Chloride

Analysis Datch. 03423								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	245.8		mg/Kg		98	90 _ 110	

5.00

mg/Kg

Lab Sample ID: LCSD 880-63262/3-A Matrix: Solid Analysis Batch: 63423				Clier	nt San	nple ID:	Lab Contro Prep	ol Sampl Type: So	
Analyte	Spike Added		LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	240.4		mg/Kg		96	90 - 110	2	20

Lab Sample ID: 880-33526-A-31-D MS
Matrix: Solid

Analysis Batch: 63423										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	503	F1	253	655.8	F1	mg/Kg		61	90 - 110	

Lab Sample ID: 880-33526-A-3 Matrix: Solid Analysis Batch: 63423	1-E MSD					CI	ient Sa	ample ID): Matrix Sp Prep	oike Dup Type: Se	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	503	F1	253	648.4	F1	mg/Kg		58	90 - 110	1	20

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09/27/23 13:55

Client Sample ID: Matrix Spike

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Lab Control Sample

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QC Association Summary

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H Job ID: 890-5323-1 SDG: 32.20976,-103.85272

GC VOA

Prep Batch: 63241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5323-1	SS01	Total/NA	Solid	5035	
890-5323-2	SS02	Total/NA	Solid	5035	
890-5323-3	SS03	Total/NA	Solid	5035	
MB 880-63241/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63241/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63241/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5323-1 MS	SS01	Total/NA	Solid	5035	
890-5323-1 MSD	SS01	Total/NA	Solid	5035	
rep Batch: 63561					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Lab Sample IDClient Sample IDPrep TypeMatrixMethodPrep BatchMB 880-63561/5-AMethod BlankTotal/NASolid5035

Analysis Batch: 63582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5323-1	SS01	Total/NA	Solid	8021B	63241
890-5323-2	SS02	Total/NA	Solid	8021B	63241
390-5323-3	SS03	Total/NA	Solid	8021B	63241
MB 880-63241/5-A	Method Blank	Total/NA	Solid	8021B	63241
MB 880-63561/5-A	Method Blank	Total/NA	Solid	8021B	63561
LCS 880-63241/1-A	Lab Control Sample	Total/NA	Solid	8021B	63241
_CSD 880-63241/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63241
390-5323-1 MS	SS01	Total/NA	Solid	8021B	63241
890-5323-1 MSD	SS01	Total/NA	Solid	8021B	63241

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5323-1	SS01	Total/NA	Solid	Total BTEX	
890-5323-2	SS02	Total/NA	Solid	Total BTEX	
890-5323-3	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 63178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5323-1	SS01	Total/NA	Solid	8015B NM	63229
890-5323-2	SS02	Total/NA	Solid	8015B NM	63229
890-5323-3	SS03	Total/NA	Solid	8015B NM	63229
MB 880-63229/1-A	Method Blank	Total/NA	Solid	8015B NM	63229
LCS 880-63229/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63229
LCSD 880-63229/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63229
890-5312-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	63229
890-5312-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	63229

Prep Batch: 63229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5323-1	SS01	Total/NA	Solid	8015NM Prep	
890-5323-2	SS02	Total/NA	Solid	8015NM Prep	
890-5323-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-63229/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63229/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

GC Semi VOA (Continued)

Prep Batch: 63229 (Continued)

Lab Sample ID LCSD 880-63229/3-A	Client Sample ID Lab Control Sample Dup	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
890-5312-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5312-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
Analysis Batch: 63292					

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5323-1	SS01	Total/NA	Solid	8015 NM	
890-5323-2	SS02	Total/NA	Solid	8015 NM	
890-5323-3	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 63262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-5323-1	SS01	Soluble	Solid	DI Leach		
890-5323-2	SS02	Soluble	Solid	DI Leach		
890-5323-3	SS03	Soluble	Solid	DI Leach		
MB 880-63262/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-63262/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-63262/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
880-33526-A-31-D MS	Matrix Spike	Soluble	Solid	DI Leach		
880-33526-A-31-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		

Analysis Batch: 63423

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5323-1	SS01	Soluble	Solid	300.0	63262
890-5323-2	SS02	Soluble	Solid	300.0	63262
890-5323-3	SS03	Soluble	Solid	300.0	63262
MB 880-63262/1-A	Method Blank	Soluble	Solid	300.0	63262
LCS 880-63262/2-A	Lab Control Sample	Soluble	Solid	300.0	63262
LCSD 880-63262/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63262
880-33526-A-31-D MS	Matrix Spike	Soluble	Solid	300.0	63262
880-33526-A-31-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	63262

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Job ID: 890-5323-1 SDG: 32.20976,-103.85272 Lab Chronicle

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Client Sample ID: SS01

Date Collected: 09/21/23 11:30 Date Received: 09/22/23 08:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63241	09/25/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63582	09/30/23 10:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63809	09/30/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			63292	09/26/23 03:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	63229	09/25/23 12:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63178	09/26/23 03:37	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63262	09/25/23 15:49	SMC	EET MID
Soluble	Analysis	300.0		20			63423	09/27/23 15:43	СН	EET MID

Client Sample ID: SS02

Date Collected: 09/21/23 11:35

Date Received: 09/22/23 08:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63241	09/25/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63582	09/30/23 10:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63809	09/30/23 10:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			63292	09/26/23 03:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	63229	09/25/23 12:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63178	09/26/23 03:58	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	63262	09/25/23 15:49	SMC	EET MID
Soluble	Analysis	300.0		10			63423	09/27/23 15:50	СН	EET MID

Client Sample ID: SS03

Date Collected: 09/21/23 11:40 Date Received: 09/22/23 08:08

	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	63241	09/25/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63582	09/30/23 10:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63809	09/30/23 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			63292	09/26/23 04:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	63229	09/25/23 12:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63178	09/26/23 04:18	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	63262	09/25/23 15:49	SMC	EET MID
Soluble	Analysis	300.0		20			63423	09/27/23 15:56	СН	EET MID

Laboratory References:

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

Lab Sample ID: 890-5323-2 Matrix: Solid

Lab Sample ID: 890-5323-3

Matrix: Solid

trix: Solid

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Job ID: 890-5323-1 SDG: 32.20976,-103.85272

Lab Sample ID: 890-5323-1 Matrix: Solid

Accreditation/Certification Summary

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Client: Ensolum Project/Site: PLU 23 Do	og Town Draw 154H			Job ID: 890-5323-1 SDG: 32.20976,-103.85272	2
Laboratory: Eurofi	ins Midland				
Unless otherwise noted, all a	nalytes for this laboratory we	ere covered under each acc	reditation/certification below.		
Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	N	ELAP	T104704400-23-26	06-30-24	
The following analytes	are included in this report. bu	ut the laboratory is not certi	fied by the governing authority. This list ma	av include analytes for which	5
the agency does not off		,	, , , , , , , , , , , , , , , , , , , ,	, ,	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					13

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Job ID: 890-5323-1 SDG: 32.20976,-103.85272

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
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
SW846 = '	Environmental Protection Agency "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed = TestAmerica Laboratories, Standard Operating Procedure	lition, November 1986 And Its Updates.	
Laboratory R	eferences: = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Laboratory References:

Eurofins Carlsbad

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H Job ID: 890-5323-1 SDG: 32.20976,-103.85272

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-5323-1	SS01	Solid	09/21/23 11:30	09/22/23 08:08	0.5'	
390-5323-2	SS02	Solid	09/21/23 11:35	09/22/23 08:08	0.5'	
890-5323-3	SS03	Solid	09/21/23 11:40	09/22/23 08:08	0.5'	

Work Order No:	Work Order Comments	PRP Brownfields RRC Superfund		Level III PST/UST TRRP Level IV	ADaPT Other:	Preservative Codes	None: NO DI Water: H ₂ O	0		H250 4: H2 NaOH: Na	H ₃ PO ₄ :HP	NaHSO 4: NABIS	Na 25 203: NaSO 3	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments	Incident#:	nAPP 2316446382		Cost Center:	2219811001	maber hallensolumien			Ag SiO ₂ Na Sr TI Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471		Received by: (Signature) Date/Time			Revised Date: 08/25/2020 Rev. 2020 2
Worl		Program: UST/PST	State of Project:	Reporting: Level II	Deliverables: EDD	EST						λ													li K Se	s and conditions ond the control t previously negotiated.	re) Received			
Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Game It Giron		3104 E Greene St	Carlshad, NM 88220	obelill@ensolum.com	ANALYSIS REQUEST						890-5323 Chain of Custody	2		10	TP Chi			* * *	-twi <					Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N v Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It asignas standard terms and conditions of service. Eurofins Xenco, its affiliates and subcontractors. It is asignas standard terms and conditions of service. Eurofins Xenco, its affiliates and subcontractors. It is asignas standard terms and conditions of service. Eurofins Xenco, its affiliates and subcontractors. It is another and subcontractors. It is asignas standard terms and conditions of service. Eurofins Xenco, its affiliates and subcontractors. It is another 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.	Date/Time Relinquished by: (Signature)	32 8.08	Q	
Ch Houston, TX (432 Midland, TX (432 EL Paso, TX (91 Hobbs, NM (57	Bill to: (if different)	Company Name:	Address:	City, State ZIP:			Rush Code		TAT starts the day received by	the lab, it received by 4:50pm	Т	LIMON LI	2	3,6	á, 4	Depth Grab/ # of Comp Cont	0.5 64 1		→ →					_	A 13PPM Texas 11 AI Sb A TCLP/SPLP6010:8RCRA Sb	er from client company to Eurofi nsibility for any losses or expens for each sample submitted to Eu	L (1	MB XV		
Environment Testing Xenco	01.11	w rrc	It'I Parks HWY	NH 88	.085a	PLU 23 DOG TOWN DRAW 1544 un Around	250 PRoutine	32, 20976, -103, 85272 Due Date:	Mccedith Reberts TAT starts the		lank: Yes No Wet Ice:	No Thermometer ID:	N/A Correction Factor:	N/A Temperature Reading:	Corrected Temperature:	Matrix Date Time Sampled	1~		1140						020: 8RCRA 13PPM Te be analyzed TCLP / SPLP 60	ent of samples constitutes a valid purchase ord cost of samples and shall not assume any respo be applied to each project and a charge of \$5	Received by (Signature)	ASuu		
🐝 eurofins 🔤	Project Manager		R	te ZIP:	Phone: 989.8	Project Name: DLU 23 DC	ber:		Sampler's Name: Mccedi	_	SAMPLE RECEIPT Temp Blank:	Samples Received Intact: (Yes)	Cooler Custody Seals: Yes No N/A	Sample Custody Seals: Yes No	Total Containers:	Sample Identification	5001	6000	5503						Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from o of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each	Relinquished by: (Signature)	Prears		

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13 14

,

Released to Imaging: 2/19/2024 8:40:28 AM

Job Number: 890-5323-1

SDG Number: 32.20976,-103.85272

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 5323 List Number: 1 Creator: Lopez, Abraham

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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Job Number: 890-5323-1

SDG Number: 32.20976,-103.85272

List Source: Eurofins Midland

List Creation: 09/25/23 09:54 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5323 List Number: 2 Creator: Rodriguez, Leticia

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

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

Zoho Sign Document ID: 316041F4-R_IR9.IITD3UQCSPLMGI765ZSWUDLCCJHF7F9GN7SCHG Received by OCD: 11/22/2023 11:46:43 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 9/28/2023 11:28:54 AM

JOB DESCRIPTION

PLU 23 Dogtown Draw 154 SDG NUMBER 32.20976,-103.85272

JOB NUMBER

890-5325-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220





Eurofins Carlsbad

Job Notes

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

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

Authorization

AMER

Generated 9/28/2023 11:28:54 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440 Page 51 of 126

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

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154 Laboratory Job ID: 890-5325-1 SDG: 32.20976,-103.85272

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Definitions/Glossary

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154 Job ID: 890-5325-1 SDG: 32.20976,-103.85272

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Qualifiers

Quaimers		- 3
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	-
S1+	Surrogate recovery exceeds control limits, high biased.	5
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VC	Α	
Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low biased.	
*1	LCS/LCSD RPD exceeds control limits.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	8
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	9
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	12
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	4.0
%R	Percent Recovery	13

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

Case Narrative

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154

Job ID: 890-5325-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5325-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 9/22/2023 8:08 AM. 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 2.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS04 (890-5325-1).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63094 and analytical batch 880-63185 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS04 (890-5325-1) and (890-5308-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-63185 recovered above the upper control limit for Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63203 and analytical batch 880-63185 was outside the control limits.

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

GC Semi VOA

Method 8015MOD_NM: The spiking solution was inadvertently omitted during the extraction process for the laboratory control sample duplicate (LCSD) associated with preparation batch 880-63229; therefore, percent recoveries are unavailable. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-63262 and analytical batch 880-63423 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154

Client Sample ID: SS04

Date Collected: 09/21/23 11:45 Date Received: 09/22/23 08:08

Sample Depth: 0.5

Chloride

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/25/23 09:44	09/26/23 09:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/25/23 09:44	09/26/23 09:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/25/23 09:44	09/26/23 09:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/25/23 09:44	09/26/23 09:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/25/23 09:44	09/26/23 09:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/25/23 09:44	09/26/23 09:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130			09/25/23 09:44	09/26/23 09:19	1
1,4-Difluorobenzene (Surr)	87		70 - 130			09/25/23 09:44	09/26/23 09:19	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/26/23 09:19	1
			2 0)					
Method: SW846 8015 NM - Diese				1114		Descented	A	D!!
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			09/26/23 04:38	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *- *1	50.1	mg/Kg		09/25/23 12:16	09/26/23 04:38	1
Diesel Range Organics (Over	<50.1	U *- *1	50.1	mg/Kg		09/25/23 12:16	09/26/23 04:38	1
C10-C28)	50.4		50.4					
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		09/25/23 12:16	09/26/23 04:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			09/25/23 12:16	09/26/23 04:38	1
o-Terphenyl	81		70 - 130			09/25/23 12:16	09/26/23 04:38	1
– Method: EPA 300.0 - Anions, Ion	Chromatogra	ohy - Solub	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			4.07				00 107 100 10 00	

4.97

mg/Kg

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Job ID: 890-5325-1 SDG: 32.20976,-103.85272

Lab Sample ID: 890-5325-1

Matrix: Solid

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09/27/23 16:03

Surrogate Summary

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154

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)		
890-5308-A-1-E MS	Matrix Spike	119	105		
890-5308-A-1-F MSD	Matrix Spike Duplicate	133 S1+	92		
890-5325-1	SS04	147 S1+	87		- 5
LCS 880-63203/1-A	Lab Control Sample	121	102		
LCSD 880-63203/2-A	Lab Control Sample Dup	129	110		
MB 880-63094/5-A	Method Blank	68 S1-	90		
MB 880-63203/5-A	Method Blank	68 S1-	92		
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ample ID	Client Sample ID	(70-130)	(70-130)	
2-A-1-C MS	Matrix Spike	91	84	
12-A-1-D MSD	Matrix Spike Duplicate	91	86	
5-1	SS04	76	81	
63229/2-A	Lab Control Sample	93	99	
-63229/3-A	Lab Control Sample Dup	6 S1-	3 S1-	
)-63229/1-A	Method Blank	94	111	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-5325-1 SDG: 32.20976,-103.85272

Prep Type: Total/NA

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QC Sample Results

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63094/5-A						Client Sa	mple ID: Metho	
Matrix: Solid							Prep Type: 1	
Analysis Batch: 63185							Prep Batch	n: 63094
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/23 14:56	09/25/23 11:44	
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/23 14:56	09/25/23 11:44	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/23 14:56	09/25/23 11:44	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/22/23 14:56	09/25/23 11:44	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/23 14:56	09/25/23 11:44	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/22/23 14:56	09/25/23 11:44	
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130			09/22/23 14:56	09/25/23 11:44	
1,4-Difluorobenzene (Surr)	90		70 - 130			09/22/23 14:56	09/25/23 11:44	-
Lab Sample ID: MB 880-63203/5-A						Client Sa	mple ID: Metho	
Matrix: Solid							Prep Type: 1	
Analysis Batch: 63185							Prep Batch	n: 63203
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/25/23 09:44	09/26/23 01:06	
Toluene	<0.00200	U	0.00200	mg/Kg		09/25/23 09:44	09/26/23 01:06	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/25/23 09:44	09/26/23 01:06	
	< 0.00400	U	0.00400	mg/Kg		09/25/23 09:44	09/26/23 01:06	
m-Xylene & p-Xylene				mg/Kg		09/25/23 09:44	09/26/23 01:06	
m-Xylene & p-Xylene o-Xylene	<0.00200	U	0.00200	mg/kg		03/23/23 03.44	03/20/23 01.00	
o-Xylene	<0.00200 <0.00400		0.00200 0.00400	mg/Kg		09/25/23 09:44	09/26/23 01:06	
o-Xylene				00				
o-Xylene Xylenes, Total	<0.00400	U MB Qualifier		00				Dil Fac
	<0.00400 MB	U <i>MB</i>	0.00400	00		09/25/23 09:44	09/26/23 01:06	
o-Xylene Xylenes, Total Surrogate	<0.00400 <i>MB</i> %Recovery	U MB Qualifier	0.00400	00		09/25/23 09:44 Prepared	09/26/23 01:06 Analyzed	Dil Fac
o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	<0.00400 MB %Recovery 68	U MB Qualifier	0.00400 	00		09/25/23 09:44 Prepared 09/25/23 09:44 09/25/23 09:44	09/26/23 01:06 Analyzed 09/26/23 01:06	

Matrix: Solid Analysis Batch: 63185

Analysis Batch: 63185							Prep B	atch: 63203
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09860		mg/Kg		99	70 - 130	
Toluene	0.100	0.1098		mg/Kg		110	70 - 130	
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.2062		mg/Kg		103	70 - 130	
o-Xylene	0.100	0.1076		mg/Kg		108	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-63203/2-A Matrix: Solid				Clier	nt San	nple ID:	Lab Contro Prep 1	ol Sampl Type: To	
Analysis Batch: 63185							Prep	Batch:	63203
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1215		mg/Kg		122	70 - 130	21	35

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SDG: 32.20976,-103.85272

QC Sample Results

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154 Job ID: 890-5325-1 SDG: 32.20976,-103.85272

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

Lab Sample ID: LCSD 880-6	3203/2-A					Clier	nt Sam	ple ID:	Lab Contro		
Matrix: Solid									Prep 1	Гуре: To	tal/N/
Analysis Batch: 63185									Prep	Batch:	6320
			Spike	LCSD	LCSD				%Rec		RPI
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Toluene			0.100	0.1272		mg/Kg		127	70 - 130	15	3
Ethylbenzene			0.100	0.1187		mg/Kg		119	70 - 130	17	3
m-Xylene & p-Xylene			0.200	0.2358		mg/Kg		118	70 - 130	13	3
o-Xylene			0.100	0.1280		mg/Kg		128	70 - 130	17	3
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	110		70 - 130								
Lab Sample ID: 890-5308-A	-1-E MS							Client	Sample ID	: Matrix	Spik
Matrix: Solid									Prep 1	Г <mark>уре: То</mark>	tal/N
Analysis Batch: 63185									Prep	Batch:	6320
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	< 0.00200	U	0.0998	0.1165		mg/Kg		117	70 - 130		
Toluene	<0.00200	U	0.0998	0.1103		mg/Kg		110	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.1193		mg/Kg		118	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2356		mg/Kg		118	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.1120		mg/Kg		112	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	119		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								
Lab Sample ID: 890-5308-A	-1-F MSD					CI	ient Sa	ample IF): Matrix Sp	oike Dur	olicate
Matrix: Solid										Гуре: То	
Analysis Batch: 63185										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPI
Analyte	•	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Benzene	<0.00200	U	0.100	0.1135		mg/Kg		113	70 - 130	3	3
Delizelle	-0.00200	0		0.1100		ing/itg		110	10 - 100		0

o-Xylene	<0.00200	U	0.100
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

<0.00200 U

<0.00399 U

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

Lab Sample ID: MB 880-63229/1-A Matrix: Solid Analysis Batch: 63178	МВ	МВ				Client Sa	mple ID: Metho Prep Type: Prep Batcl	Fotal/NA
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/25/23 12:16	09/25/23 21:10	1
(GRO)-C6-C10								

0.100

0.200

0.1036

0.2324

0.1140

mg/Kg

mg/Kg

mg/Kg

102

116

114

70 - 130

70 - 130

70 - 130

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14

1

2

35

35

35

Ethylbenzene

m-Xylene & p-Xylene

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154

Job ID: 890-5325-1 SDG: 32.20976,-103.85272

Lab Sample ID: MB 880-63229/ Matrix: Solid Analysis Batch: 63178	1-A							Client S	ample ID: M Prep Ty Prep E	pe: To	tal/NA
-	M	В МВ									
Analyte	Resu	t Qualifier	RL		Unit		D	Prepared	Analyzed	d	Dil Fac
Diesel Range Organics (Over		0 U	50.0		mg/Kg	3		25/23 12:16			1
C10-C28)					5.	, ,					
Oll Range Organics (Over C28-C36)	<50.0	0 U	50.0		mg/Kg	9	09/	25/23 12:16	09/25/23 21	:10	1
	М	в МВ									
Surrogate	%Recover	y Qualifier	Limits					Prepared	Analyzed	d	Dil Fac
1-Chlorooctane	9	4	70 - 130				09/	25/23 12:16	6 09/25/23 21	1:10	1
o-Terphenyl	11	1	70 - 130				09/	25/23 12:16	6 09/25/23 21	1:10	1
Lab Sample ID: LCS 880-63229	/ 2-A						Clien	it Sample	ID: Lab Cor	ntrol Sa	ample
Matrix: Solid									Prep Ty		
Analysis Batch: 63178									Prep E	-	
			Spike	LCS	LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000	905.7		mg/Kg			70 - 130		
(GRO)-C6-C10			1000	303.7		mg/itg		31	10 - 150		
Diesel Range Organics (Over C10-C28)			1000	963.3		mg/Kg		96	70 - 130		
,	LCS LC	S									
Surrogate	%Recovery Qu	alifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	93 99 29/3-A		70 - 130 70 - 130			Cli	ent Sar	nple ID: I	_ab Control	Sampl	e Dup
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid	99			LCSD	LCSD	Cli	ent Sai	mple ID: I	_ab Control Prep Ty Prep E %Rec	pe: To	tal/NA
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178	99		70 - 130	Result	Qualifier	Clic	ent Sai	mple ID: I	Prep Ty Prep E	pe: To	tal/NA 63229
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics	99		70 ₋ 130 Spike		Qualifier			-	Prep Ty Prep E %Rec	pe: To Batch:	tal/NA 63229 RPD
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	99		70 - 130 Spike Added	Result	Qualifier *- *1	Unit		%Rec	Prep Ty Prep E %Rec Limits	pe: To Batch: RPD	tal/NA 63229 RPD Limit
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	99 ?9/3-A		70 - 130 Spike Added 1000	Result 264.5	Qualifier *- *1	Unit mg/Kg		% Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 110	tal/NA 63229 RPD Limit 20
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	99 29/3-A		70 - 130 Spike Added 1000 1000	Result 264.5	Qualifier *- *1	Unit mg/Kg		% Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 110	tal/NA 63229 RPD Limit 20
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	99 29/3-A 	alifier	70 - 130 Spike Added 1000 1000 Limits	Result 264.5	Qualifier *- *1	Unit mg/Kg		% Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 110	tal/NA 63229 RPD Limit 20
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	99 29/3-A	alifier	70 - 130 Spike Added 1000 1000	Result 264.5	Qualifier *- *1	Unit mg/Kg		% Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 110	tal/NA 63229 RPD Limit 20
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-5312-A-1-C	99 29/3-A LCSD LC %Recovery Qu 6 S1 3 S1	alifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 264.5	Qualifier *- *1	Unit mg/Kg		%Rec 26 3	Prep Ty %Rec Limits 70 - 130 70 - 130	pe: To Batch: RPD 110 187 Matrix	tal/NA 63229 RPD Limit 20 20 Spike
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-5312-A-1-C Matrix: Solid	99 29/3-A LCSD LC %Recovery Qu 6 S1 3 S1	alifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 264.5	Qualifier *- *1	Unit mg/Kg		%Rec 26 3	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130	pe: To Batch: RPD 110 187 Matrix pe: To	tal/NA 63229 RPD Limit 20 20 Spike tal/NA
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-5312-A-1-C Matrix: Solid	99 29/3-A <i>LCSD LC</i> %Recovery Qu 6 S1 3 S1 3 S1	alifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 264.5 33.12	Qualifier *- *1 J *- *1	Unit mg/Kg		%Rec 26 3	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: I Prep Ty Prep E	pe: To Batch: RPD 110 187 Matrix pe: To	tal/NA 63229 RPD Limit 20 20 Spike tal/NA
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-5312-A-1-C Matrix: Solid Analysis Batch: 63178	99 29/3-A <i>LCSD LC</i> %Recovery Qu 6 S1 3 S1 5 MS Sample Sa	nalifier - - mple	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 Spike	Result 264.5 33.12 MS	Qualifier *- *1 J *- *1 MS	Unit mg/Kg mg/Kg	<u>D</u>	%Rec 26 3 Client	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 Sample ID: I Prep Ty Prep E %Rec	pe: To Batch: RPD 110 187 Matrix pe: To	tal/NA 63229 RPD Limit 20 20 Spike tal/NA
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-5312-A-1-C Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics	99 29/3-A <i>LCSD LC</i> %Recovery Qu 6 S1 3 S1 3 S1	alifier - - mple alifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 264.5 33.12 MS	Qualifier *- *1 J *- *1	Unit mg/Kg		%Rec 26 3	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: I Prep Ty Prep E	pe: To Batch: RPD 110 187 Matrix pe: To	tal/NA 63229 RPD Limit 20 20 Spike tal/NA
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-5312-A-1-C Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	99 29/3-A LCSD LC %Recovery Qu 6 S1 3 S1 5 MS Sample Sa Result Qu	mple alifier	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 5pike Added Added	Result 264.5 33.12 MS Result	Qualifier *- *1 J *- *1 MS	Unit mg/Kg mg/Kg	<u>D</u>	%Rec 26 3 Client	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 Sample ID: I Prep Ty Prep E %Rec Limits	pe: To Batch: RPD 110 187 Matrix pe: To	tal/NA 63229 RPD Limit 20 20 Spike tal/NA
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-5312-A-1-C Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	99 29/3-A LCSD LC %Recovery Qu 6 S1 3 S1 5 MS Sample Sa Result Qu <49.8 U ⁻¹	nalifier - - mple alifier *1	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 5pike Added 1010	Result 264.5 33.12 MS Result 744.6	Qualifier *- *1 J *- *1 MS	Unit mg/Kg mg/Kg Unit mg/Kg	<u>D</u>	%Rec 26 3 Client %Rec 74	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: I Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 110 187 Matrix pe: To	tal/NA 63229 RPD Limit 20 20 Spike tal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-5312-A-1-C Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	99 29/3-A <i>LCSD</i> <i>C</i> <i>Qu</i> 6 51 3 51 5 MS Sample 8a Result Qu 49.8 U ³ 49.8 U ³ <i>MS</i>	nalifier - - mple alifier - *1	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 Spike Added 1010 1010	Result 264.5 33.12 MS Result 744.6	Qualifier *- *1 J *- *1 MS	Unit mg/Kg mg/Kg Unit mg/Kg	<u>D</u>	%Rec 26 3 Client %Rec 74	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: I Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 110 187 Matrix pe: To	tal/NA 63229 RPD Limit 20 20 Spike tal/NA
o-Terphenyl Lab Sample ID: LCSD 880-6322 Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-5312-A-1-C Matrix: Solid Analysis Batch: 63178 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	99 29/3-A LCSD LC %Recovery Qu 6 S1 3 S1 5 MS Sample Sa Result Qu <49.8 U ⁻¹	nalifier - - mple alifier - *1	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 5pike Added 1010	Result 264.5 33.12 MS Result 744.6	Qualifier *- *1 J *- *1 MS	Unit mg/Kg mg/Kg Unit mg/Kg	<u>D</u>	%Rec 26 3 Client %Rec 74	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: I Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch: RPD 110 187 Matrix pe: To	tal/NA 63229 RPD Limit 20 20 Spike tal/NA

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o-Terphenyl

84

70 - 130

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154

Job ID: 890-5325-1 SDG: 32.20976,-103.85272

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

Matrix: Solid	-1-D MSD						chent	Samp	ie ID	: Matrix Sp Prep 1	оке Бир Гуре: То	
											Batch:	
Analysis Batch: 63178	Samplo	Sample	Spike	Men	MSD					%Rec	Datch.	RPD
Analyto	-	Qualifier	Added		Qualifier	Unit		D %F	Rec	Limits	RPD	Limi
Analyte Gasoline Range Organics		U *- *1	1010		Quaimer			J %F	75 -		2	20
(GRO)-C6-C10	<49.8	0 - 1	1010	757.1		mg/Kg			15	70 - 130	2	2
Diesel Range Organics (Over	<49.8	U *- *1	1010	792.6		mg/Kg			78	70 - 130	3	2
C10-C28)	1010	0								10-100	Ũ	-
,												
		MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	91		70 - 130									
o-Terphenyl	86		70 - 130									
lethod: 300.0 - Anions,	Ion Chromat	ography										
Lab Sample ID: MB 880-632	262/1-A							Clie	ent S	ample ID:		
Matrix: Solid										Prep	Type: So	olubl
Analysis Batch: 63423												
		MB MB										
Analyte		esult Qualifier		RL	Unit		<u>D</u>	Prepa	red	Analyz		Dil Fa
Chloride	<	<5.00 U		5.00	mg/K	g				09/27/23	13:55	
Lab Sample ID: LCS 880-63	2262/2-1						Clie	nt Sai	mplo	ID: Lab Co	antrol S	amnl
)202/2-A						Cile	int Sai	inhie		Type: So	
										Fieh	Type. S	olubi
			Spike	105	1.05						Type. O	olubi
Analysis Batch: 63423			Spike		LCS	Unit		o %∈	200	%Rec	Type. of	orabi
Analysis Batch: 63423 Analyte			Added	Result	LCS Qualifier	Unit	<u>I</u>	D%F	Rec	%Rec Limits		
Analysis Batch: 63423 Analyte			•			Unit mg/Kg	<u> </u>	D%F	Rec 98	%Rec		
Analysis Batch: 63423 Analyte Chloride	 63262/3-A		Added	Result		mg/Kg			98	%Rec Limits 90 - 110		
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6	63262/3-A		Added	Result		mg/Kg			98	%Rec Limits 90 - 110		e Du
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid	63262/3-A		Added	Result		mg/Kg			98	%Rec Limits 90 - 110		e Du
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid	63262/3-A		Added 250	Result 245.8	Qualifier	mg/Kg			98	%Rec Limits 90 - 110 Lab Contro Prep		e Du olubi
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423	63262/3-A		Added 250 Spike	Result 245.8	Qualifier	mg/Kg Cli	ent Sa	ample	98 ID: L	%Rec Limits 90 - 110 Lab Contro Prep %Rec	I Sampl Type: So	e Duj olubi RP
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte	63262/3-A		Added 250 Spike Added	Result 245.8 LCSD Result	Qualifier	mg/Kg Cli	ent Sa	ample	98 ID: L Rec	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	I Sampl Type: So RPD	e Duj olubl RPI Lim
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte	63262/3-A		Added 250 Spike	Result 245.8	Qualifier	mg/Kg Cli	ent Sa	ample	98 ID: L	%Rec Limits 90 - 110 Lab Contro Prep %Rec	I Sampl Type: So	e Duj olubi RPI Lim
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte Chloride			Added 250 Spike Added	Result 245.8 LCSD Result	Qualifier	mg/Kg Cli	ent Sa	ample	98 ID: L Rec 96	%Rec Limits 90 - 110 -ab Contro Prep %Rec Limits 90 - 110	ol Sampl Type: So <u>RPD</u> 2	e Duj olubi RPI Lim 2
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-/			Added 250 Spike Added	Result 245.8 LCSD Result	Qualifier	mg/Kg Cli	ent Sa	ample	98 ID: L Rec 96	%Rec Limits 90 - 110 -ab Contro Prep %Rec Limits 90 - 110 Sample ID	ol Sampl Type: So <u>RPD</u> 2 : Matrix	e Duj olubl RPI Lim 2 Spike
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-/ Matrix: Solid			Added 250 Spike Added	Result 245.8 LCSD Result	Qualifier	mg/Kg Cli	ent Sa	ample	98 ID: L Rec 96	%Rec Limits 90 - 110 -ab Contro Prep %Rec Limits 90 - 110 Sample ID	ol Sampl Type: So <u>RPD</u> 2	e Duj olubi RPI Lim 2 Spike
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-/ Matrix: Solid	— — — — — — — — — — — — — — — — — — —		Added 250 Spike Added	Result 245.8 LCSD Result 240.4	Qualifier	mg/Kg Cli	ent Sa	ample	98 ID: L Rec 96	%Rec Limits 90 - 110 -ab Contro Prep %Rec Limits 90 - 110 Sample ID	ol Sampl Type: So <u>RPD</u> 2 : Matrix	e Duj olubl RPI Lim 2 Spike
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-4 Matrix: Solid Analysis Batch: 63423	A-31-D MS Sample	Sample Qualifier	Added 250 Spike Added 250	Result 245.8 LCSD Result 240.4	Qualifier LCSD Qualifier MS	mg/Kg Cli Unit mg/Kg	ent Sa	ample D %F Cl	98 ID: L 8ec 96	%Rec Limits 90 - 110 -ab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec	ol Sampl Type: So <u>RPD</u> 2 : Matrix	e Duj olubi RPI Lim 2 Spike
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-7 Matrix: Solid Analysis Batch: 63423 Analyte	A-31-D MS Sample	Qualifier	Added 250 Spike Added 250 Spike	Result 245.8 LCSD Result 240.4	Qualifier LCSD Qualifier MS Qualifier	mg/Kg Cli	ent Sa	ample D %F Cl	98 ID: L Rec 96	%Rec Limits 90 - 110 -ab Contro Prep %Rec Limits 90 - 110 Sample ID Prep	ol Sampl Type: So <u>RPD</u> 2 : Matrix	e Du olubl RP Lim 2 Spik
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-7 Matrix: Solid Analysis Batch: 63423 Analyte	A-31-D MS Sample Result	Qualifier	Added 250 Spike Added 250 Spike Added	Result 245.8 LCSD Result 240.4 MS Result	Qualifier LCSD Qualifier MS Qualifier	Unit Unit Unit	ent Sa	ample D %F Cl	98 ID: L 96 lient	%Rec Limits 90 - 110 -ab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits	ol Sampl Type: So <u>RPD</u> 2 : Matrix	e Duj olubi RPI Lim 2 Spike
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-7 Matrix: Solid Analysis Batch: 63423 Analyte Chloride	A-31-D MS Sample Result 503	Qualifier	Added 250 Spike Added 250 Spike Added	Result 245.8 LCSD Result 240.4 MS Result	Qualifier LCSD Qualifier MS Qualifier	Unit Unit mg/Kg	ent Sa	CI	98 - - 1D: L L - 36 - - - 96 - - - - 10: L - - - - 96 - - - - - 10: L - - - - - - 10: L -	%Rec Limits 90 - 110 -ab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits	el Sampl Type: So <u>RPD</u> 2 : Matrix Type: So	e Du olubl RP Lim 2 Spik olubl
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-4 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-4	A-31-D MS Sample Result 503	Qualifier	Added 250 Spike Added 250 Spike Added	Result 245.8 LCSD Result 240.4 MS Result	Qualifier LCSD Qualifier MS Qualifier	Unit Unit mg/Kg	ent Sa	CI	98 - - 1D: L L - 36 - - - 96 - - - - 10: L - - - - 96 - - - - - 10: L - - - - - - 10: L -	%Rec Limits 90 - 110 -ab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	el Sampl Type: So <u>RPD</u> 2 : Matrix Type: So	e Du olubl RP Lim 2 Spik olubl
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-/ Matrix: Solid Analyte Chloride Lab Sample ID: 880-33526-/ Matrix: Solid	A-31-D MS Sample Result 503	Qualifier	Added 250 Spike Added 250 Spike Added	Result 245.8 LCSD Result 240.4 MS Result	Qualifier LCSD Qualifier MS Qualifier	Unit Unit mg/Kg	ent Sa	CI	98 - - 1D: L L - 36 - - - 96 - - - - 10: L - - - - 96 - - - - - 10: L - - - - - - 10: L -	%Rec Limits 90 - 110 -ab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	I Sampl Type: So <u>RPD</u> 2 : Matrix Type: So Dike Dup	e Duj olubi RPI Lim 2 Spik olubi
Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-/ Matrix: Solid Analyte Chloride Lab Sample ID: 880-33526-/ Matrix: Solid	A-31-D MS Sample Result 503 A-31-E MSD	Qualifier	Added 250 Spike Added 250 Spike Added	Result 245.8 LCSD Result 240.4 MS Result 655.8	Qualifier LCSD Qualifier MS Qualifier	Unit Unit mg/Kg	ent Sa	CI	98 - - 1D: L L - 36 - - - 96 - - - - 10: L - - - - 96 - - - - - 10: L - - - - - - 10: L -	%Rec Limits 90 - 110 -ab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	I Sampl Type: So <u>RPD</u> 2 : Matrix Type: So Dike Dup	e Duy oluble RPI Limi 2º Spike oluble
Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: LCSD 880-6 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-4 Matrix: Solid Analysis Batch: 63423 Analyte Chloride Lab Sample ID: 880-33526-4 Matrix: Solid Analysis Batch: 63423 Analyte	A-31-D MS Sample Result 503 A-31-E MSD Sample	Qualifier F1	Added 250 Spike Added 250 Spike Added 253	Result 245.8 LCSD Result 240.4 MS 655.8	Qualifier LCSD Qualifier MS Qualifier F1	Unit Unit mg/Kg	ent Sa	ample <u> </u>	98 - - 1D: L L - 36 - - - 96 - - - - 10: L - - - - 96 - - - - - 10: L - - - - - - 10: L -	%Rec Limits 90 - 110 -ab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 : Matrix Sp Prep	I Sampl Type: So <u>RPD</u> 2 : Matrix Type: So Dike Dup	e Dup oluble Limi 2 Spike oluble

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QC Association Summary

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154

Job ID: 890-5325-1 SDG: 32.20976,-103.85272

GC VOA

Prep Batch: 63094

ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
B 880-63094/5-A	Method Blank	Total/NA	Solid	5035	
alysis Batch: 63185					
_ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
390-5325-1	SS04	Total/NA	Solid	8021B	63203
MB 880-63094/5-A	Method Blank	Total/NA	Solid	8021B	63094
MB 880-63203/5-A	Method Blank	Total/NA	Solid	8021B	63203
LCS 880-63203/1-A	Lab Control Sample	Total/NA	Solid	8021B	63203
LCSD 880-63203/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63203
890-5308-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	63203
890-5308-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	63203
			Matrix	Method	
		Bron Tyme			
	Client Sample ID SS04	Prep Type Total/NA	Solid		Prep Batch
890-5325-1				5035 5035	Prep Batch
890-5325-1 MB 880-63203/5-A	SS04	Total/NA	Solid	5035	Prep Batch
890-5325-1 MB 880-63203/5-A LCS 880-63203/1-A	SS04 Method Blank	Total/NA Total/NA	Solid	5035 5035	
890-5325-1 MB 880-63203/5-A LCS 880-63203/1-A LCSD 880-63203/2-A	SS04 Method Blank Lab Control Sample	Total/NA Total/NA Total/NA	Solid Solid Solid	5035 5035 5035	
890-5325-1 MB 880-63203/5-A LCS 880-63203/1-A LCSD 880-63203/2-A 890-5308-A-1-E MS	SS04 Method Blank Lab Control Sample Lab Control Sample Dup	Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid	5035 5035 5035 5035 5035	Prep Batch
890-5325-1 MB 880-63203/5-A LCS 880-63203/1-A LCSD 880-63203/2-A 890-5308-A-1-E MS 890-5308-A-1-F MSD	SS04 Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike Matrix Spike Duplicate	Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid	5035 5035 5035 5035 5035 5035	Prep Batch
Lab Sample ID 890-5325-1 MB 880-63203/5-A LCS 880-63203/1-A LCSD 880-63203/2-A 890-5308-A-1-E MS 890-5308-A-1-F MSD nalysis Batch: 63351 Lab Sample ID	SS04 Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike Matrix Spike Duplicate	Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid	5035 5035 5035 5035 5035 5035	Prep Batch

GC Semi VOA

Analysis Batch: 63178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5325-1	SS04	Total/NA	Solid	8015B NM	63229
MB 880-63229/1-A	Method Blank	Total/NA	Solid	8015B NM	63229
LCS 880-63229/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63229
_CSD 880-63229/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63229
390-5312-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	63229
890-5312-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	63229

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5325-1	SS04	Total/NA	Solid	8015NM Prep	
MB 880-63229/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63229/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63229/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5312-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5312-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
Analysia Databa (2000)					
Analysis Batch: 63293					

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5325-1	SS04	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154

HPLC/IC

Leach Batch: 63262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5325-1	SS04	Soluble	Solid	DI Leach	
MB 880-63262/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63262/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63262/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33526-A-31-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-33526-A-31-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
Analysis Batch: 63423					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5325-1	SS04	Soluble	Solid	300.0	63262
MB 880-63262/1-A	Method Blank	Soluble	Solid	300.0	63262
LCS 880-63262/2-A	Lab Control Sample	Soluble	Solid	300.0	63262
LCSD 880-63262/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63262
880-33526-A-31-D MS	Matrix Spike	Soluble	Solid	300.0	63262
880-33526-A-31-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	63262

Job ID: 890-5325-1

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Job ID: 890-5325-1 SDG: 32.20976,-103.85272 Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154

Client Sample ID: SS04 Date Collected: 09/21/23 11:45

Date Received: 09/22/23 08:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63203	09/25/23 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63185	09/26/23 09:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63351	09/26/23 09:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			63293	09/26/23 04:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	63229	09/25/23 12:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63178	09/26/23 04:38	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	63262	09/25/23 15:49	SMC	EET MID
Soluble	Analysis	300.0		1			63423	09/27/23 16:03	СН	EET MID

Laboratory References:

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

Job ID: 890-5325-1

SDG: 32.20976,-103.85272

Matrix: Solid

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Accreditation/Certification Summary

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154 Laboratory: Eurofins Midland Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority **Identification Number** Expiration Date Program NELAP T104704400-23-26 06-30-24 Texas The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte 8015 NM Total TPH Solid Total BTEX Solid Total BTEX

Eurofins Carlsbad

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Job ID: 890-5325-1
SDG: 32.20976,-103.85272

Method Summary

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154

Job ID: 890-5325-1 SDG: 32.20976,-103.85272

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
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
SW846 = '	Environmental Protection Agency "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ec = TestAmerica Laboratories, Standard Operating Procedure	lition, November 1986 And Its Updates.	
	eferences: = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Laboratory References:

Eurofins Carlsbad

Sample Summary

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154 Job ID: 890-5325-1 SDG: 32.20976,-103.85272

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-5325-1	SS04	Solid	09/21/23 11:45	09/22/23 08:08	0.5	4
						5
						8
						9

erveu by OCD. 1	1/22/2023 11.40.	73 AM	-rem	uge 07 0j 12
Page of 1	er Comments Brownfields RRC Superfund PST/UST TRRP Level N	Preservative Codes None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO 3; HN H2O 4; H2 NaOH: Na H3PO 4; HP NaOH: Na NaHSO 4; NABIS NaOH: Na NaHSO 4; NASO 3 Zn Acteate+NaOH: Zn NaOH: Ascorbic Acid: SAPC Sample Comments	Incident #: nAPP2316446382 Cost Center: 2219811001 2219811001 misberts Censclum 15n U Zn 7470 /7471 Date/Time	Revised Date: 06/25/2020 Rev. 2020.2
Work Order No: _	Work Order Comments Program: UST/PST PRP Brownfields State of Project: Reporting: Level III PST/UST Reporting: Level III ADaPT Deliverables:	Letody	dited. Received by: (Signature	
Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	 KTU Energy SlO4 E Greene St Carlsbad, NN 88220 	BTEX BTEX BTEX BSO-5325 Chain of Custody	A A A A A A A A A A A A A A A A A A A	4 0
Cha Houston, TX (28 Midland, TX (432) 7 EL Paso, TX (915) Hobbs, NM (575)	Bill to: (if differen Company Name: Address: City, State ZIP:	H Turn Around Pres. Parameters Parameter	(45 0.5 61 1 S (45 0.5 61 1 S (45 0.5 61 1 S (45 1 1 S S (45 1 1 S S (45 1 1 S A	
NS Environment Testing Xenco	Ben Belill Ensolum, LLC 3122 Nati Pares Hwy Carlsbad, NM 88220 989.854.0852	23 DCG TOWN Draw 15 209716,-103.85272 209716,-103.85272 209716,-103.85272 209716,-103.85272 209716,-103.85272 209716,-103.85272 209716,-103.85250 209716,-103.85250 209716,-103.85250 209716,-103.85250 209716,-103.85250 209716,-103.85250 720016,-103.85250 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.85272 720016,-103.852772 720016,-103.852772 720016,-103.852772 7200175 720016,-103.852772 7200175 7200000000000000000000000000000000000	SSC4 SC4 SC1/23 II 45 0.5 C SC1/23 II 45 0.5 C C SC1/23 II 45 0.5 C SC2/2010 SC2/2010 SC2/201	
🎲 eurofins	Project Manager: Company Name: Address: City, State ZIP: Phone: Phone:	Name: Number: Location: r's Name: r's Name: r's Name: r's Name: r's Cuctody Seals: Custody Seals: ontainers: Sample Identi	SSC4 SSC4 Total 200.7 / 6010 200 Circle Method(s) and Metal(Circle Method(s) and Metal(Police: Signature of this document and relinq of service. Eurofins Xenco. Aminimum charge of 358. Relinquished by: (Sign ature)	m vs

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Job Number: 890-5325-1

SDG Number: 32.20976,-103.85272

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 5325 List Number: 1 Creator: Bruns, Shannon

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

Job Number: 890-5325-1

SDG Number: 32.20976,-103.85272

List Source: Eurofins Midland

List Creation: 09/25/23 09:54 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5325 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	False	

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



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 10/2/2023 4:15:54 PM

JOB DESCRIPTION

PLU 23 Dogtown Draw 154H SDG NUMBER 32.20976,-103.85272

JOB NUMBER

890-5327-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contect information



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

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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

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154H Laboratory Job ID: 890-5327-1 SDG: 32.20976,-103.85272

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	Definitions/Glossary		
Client: Ensolu	ım	Job ID: 890-5327-1	
Project/Site: F	PLU 23 Dogtown Draw 154H	SDG: 32.20976,-103.85272	
Qualifiers			Ē
GC VOA			
Qualifier	Qualifier Description		
+	LCS and/or LCSD is outside acceptance limits, high biased.		
1	MS and/or MSD recovery exceeds control limits.		
J	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA	Α		
ualifier	Qualifier Description		
	LCS and/or LCSD is outside acceptance limits, low biased.		
1	LCS/LCSD RPD exceeds control limits.		
	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.		
S1-	Surrogate recovery exceeds control limits, low biased.		
J	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
a	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)		

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) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC MDL Method Detection Limit 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

Dil Fac

Dilution Factor

Case Narrative

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154H

(QC) is further explained in narrative comments.

Job ID: 890-5327-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5327-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.

Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 9/22/2023 8:08 AM. 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 2.4°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS05 (890-5327-1).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-63582 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The matrix spike (MS) and/or matrix spike duplicate (MSD) recovery for preparation batch 880-63241 and analytical batch 880-63582 was outside control limits for the following analyte(s): m-Xylene & p-Xylene. Results may be biased high because this analyte is a common laboratory solvent and contaminant.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-63241 and analytical batch 880-63582 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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 spiking solution was inadvertently omitted during the extraction process for the laboratory control sample duplicate (LCSD) associated with preparation batch 880-63229; therefore, percent recoveries are unavailable. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154H

Client Sample ID: SS05

Date Collected: 09/21/23 11:50 Date Received: 09/22/23 08:08

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		09/25/23 15:04	09/30/23 12:08	
Toluene	<0.00201	U	0.00201	mg/Kg		09/25/23 15:04	09/30/23 12:08	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/25/23 15:04	09/30/23 12:08	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/25/23 15:04	09/30/23 12:08	
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		09/25/23 15:04	09/30/23 12:08	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/25/23 15:04	09/30/23 12:08	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	75		70 - 130			09/25/23 15:04	09/30/23 12:08	
1,4-Difluorobenzene (Surr)	88		70 - 130			09/25/23 15:04	09/30/23 12:08	
Method: TAL SOP Total BTEX -	Total BTEX Calo	culation						
					_	. .	A maily maid	Dil Fa
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	DII Fa
Analyte Total BTEX	Result <0.00402		RL 0.00402	mg/Kg	<u>D</u>	Prepared	09/30/23 12:08	
Total BTEX	<0.00402	U	0.00402		<u>D</u>	Prepared		
Total BTEX Method: SW846 8015 NM - Dies	<0.00402 el Range Organ	U	0.00402		<u>D</u>	Prepared		
Total BTEX Method: SW846 8015 NM - Dies Analyte	<0.00402 el Range Organ	U ics (DRO) (Qualifier	0.00402	mg/Kg			09/30/23 12:08	Dil Fa
-	<0.00402 el Range Organ Result <50.5	U ics (DRO) (1 Qualifier U	0.00402 GC) RL 50.5	mg/Kg Unit			09/30/23 12:08 Analyzed	
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH	el Range Organ Result <50.5 esel Range Orga	U ics (DRO) (1 Qualifier U	0.00402 GC) RL 50.5	mg/Kg Unit			09/30/23 12:08 Analyzed	Dil Fa
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	el Range Organ Result <50.5 esel Range Orga	U ics (DRO) ((Qualifier U unics (DRO)	0.00402 GC) RL 50.5 (GC)	mg/Kg	D	Prepared	09/30/23 12:08 Analyzed 09/26/23 04:58	Dil Fa Dil Fa
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	<0.00402 el Range Organ Result <50.5 esel Range Orga Result <50.5	U ics (DRO) (Qualifier U nnics (DRO) Qualifier	0.00402 GC) RL 50.5 (GC) RL	mg/Kg Unit mg/Kg Unit	D	Prepared	09/30/23 12:08 Analyzed O9/26/23 04:58 Analyzed	Dil Fa Dil Fa
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Sasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00402 el Range Organ Result <50.5 esel Range Orga Result <50.5	U ics (DRO) (1 Qualifier U mics (DRO) Qualifier U*-*1 U*-*1	0.00402 GC) RL 50.5 (GC) RL 50.5	Unit mg/Kg mg/Kg Unit mg/Kg	D	Prepared Prepared 09/25/23 12:16	09/30/23 12:08 Analyzed 09/26/23 04:58 09/26/23 04:58	Dil Fa Dil Fa
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	<0.00402 el Range Organ Result <50.5 esel Range Orga Result <50.5 <50.5	U ics (DRO) (1 Qualifier U mics (DRO) Qualifier U*-*1 U*-*1 U	0.00402 GC) RL 50.5 (GC) RL 50.5 50.5	Unit mg/Kg mg/Kg Unit mg/Kg mg/Kg	D	Prepared Prepared 09/25/23 12:16 09/25/23 12:16	O9/30/23 12:08 Analyzed 09/26/23 04:58 O9/26/23 04:58 09/26/23 04:58	Dil Fa Dil Fa
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte	<0.00402 el Range Organ Result <50.5 esel Range Orga Result <50.5 <50.5 <50.5	U ics (DRO) (1 Qualifier U mics (DRO) Qualifier U*-*1 U*-*1 U	0.00402 GC) RL 50.5 (GC) RL 50.5 50.5 50.5	Unit mg/Kg mg/Kg Unit mg/Kg mg/Kg	D	Prepared 09/25/23 12:16 09/25/23 12:16 09/25/23 12:16	O9/30/23 12:08 Analyzed 09/26/23 04:58 O9/26/23 04:58 09/26/23 04:58 09/26/23 04:58	Dil Fa

5.01

mg/Kg

231

1

09/27/23 17:03

SDG: 32.20976,-103.85272

Job ID: 890-5327-1

Matrix: Solid

> 11 12 13

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Surrogate Summary

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154H

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

				Percent Surrogate Recovery (Acceptance Limits)	4
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-5323-A-1-B MS	Matrix Spike	118	111		
890-5323-A-1-C MSD	Matrix Spike Duplicate	118	109		6
890-5327-1	SS05	75	88		
LCS 880-63241/1-A	Lab Control Sample	125	114		7
LCSD 880-63241/2-A	Lab Control Sample Dup	120	105		
MB 880-63241/5-A	Method Blank	74	86		8
MB 880-63561/5-A	Method Blank	70	98		0
Surrogate Legend					9
BFB = 4-Bromofluorobe	nzene (Surr)				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ple ID	Client Sample ID	(70-130)	(70-130)	
312-A-1-C MS	Matrix Spike	91	84	
312-A-1-D MSD	Matrix Spike Duplicate	91	86	
327-1	SS05	75	80	
-63229/2-A	Lab Control Sample	93	99	
-63229/3-A	Lab Control Sample Dup	6 S1-	3 S1-	
0-63229/1-A	Method Blank	94	111	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Prep Type: Total/NA

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Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63241/5-A

Matrix: Solid Analysis Batch: 63582

	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 09:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 09:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 09:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/25/23 15:04	09/30/23 09:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/25/23 15:04	09/30/23 09:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/25/23 15:04	09/30/23 09:44	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130			09/25/23 15:04	09/30/23 09:44	1
1,4-Difluorobenzene (Surr)	86		70 - 130			09/25/23 15:04	09/30/23 09:44	1

Lab Sample ID: LCS 880-63241/1-A Matrix: Solid

Analysis Batch: 63582

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1056		mg/Kg		106	70 - 130
Toluene	0.100	0.1028		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09895		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2063		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1377	*+	mg/Kg		138	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: LCSD 880-63241/2-A

Matrix: Solid

Analysis Batch: 63582							Prep	Batch:	63241
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1011		mg/Kg		101	70 - 130	4	35
Toluene	0.100	0.1004		mg/Kg		100	70 - 130	2	35
Ethylbenzene	0.100	0.09835		mg/Kg		98	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2043		mg/Kg		102	70 - 130	1	35
o-Xylene	0.100	0.1162		mg/Kg		116	70 - 130	17	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-5323-A-1-B MS

Matrix: Solid Analysia Bataby 62592

Analysis Batch: 63582									Prep	Batch: 63241
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.09021		mg/Kg		90	70 - 130	
Toluene	<0.00199	U	0.0998	0.08420		mg/Kg		84	70 - 130	

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Prep Type: Total/NA

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Job ID: 890-5327-1 SDG: 32.20976,-103.85272

Client Sample ID: Method Blank

Prep Batch: 63241

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 63241

Client Sample ID: Matrix Spike

Lab Sample ID: 890-5323-A-1-B MS

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

Job ID: 890-5327-1 SDG: 32.20976,-103.85272
Client Sample ID: Matrix Spike
Prep Type: Total/NA
Pren Batch: 63241

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 63582									· Prep Ty	vpe: Total/NA Batch: 63241
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	< 0.00199	U	0.0998	0.07776		mg/Kg		78	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1505		mg/Kg		75	70 - 130	
o-Xylene	<0.00199	U *+	0.0998	0.08123		mg/Kg		81	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)			70 - 130							
1,4-Difluorobenzene (Surr)	111		70 - 130							

Lab Sample ID: 890-5323-A-1-C MSD Matrix: Solid

Analysis Batch: 63582

Analysis Batch: 63582									Prep	Batch:	63241	
	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	0.08527		mg/Kg		86	70 - 130	6	35	
Toluene	<0.00199	U	0.0996	0.07934		mg/Kg		80	70 - 130	6	35	ī
Ethylbenzene	<0.00199	U	0.0996	0.07440		mg/Kg		75	70 - 130	4	35	
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1378	F1	mg/Kg		69	70 - 130	9	35	i
o-Xylene	<0.00199	U *+	0.0996	0.07353		mg/Kg		74	70 - 130	10	35	
	MSD	MSD										

	w3D	WSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

MR MR

Lab Sample ID: MB 880-63561/5-A Matrix: Solid Analysis Batch: 63582

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 63561

	MD	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		09/28/23 17:43	09/29/23 23:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/23 17:43	09/29/23 23:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/23 17:43	09/29/23 23:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/28/23 17:43	09/29/23 23:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/23 17:43	09/29/23 23:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/23 17:43	09/29/23 23:06	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130			09/28/23 17:43	09/29/23 23:06	1
1,4-Difluorobenzene (Surr)	98		70 - 130			09/28/23 17:43	09/29/23 23:06	1

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

Lab Sample ID: MB 880-63229/1-A Matrix: Solid Analysis Batch: 63178						Client Sa	mple ID: Metho Prep Type: ⁻ Prep Batcl	Fotal/NA
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/25/23 12:16	09/25/23 21:10	1
(GRO)-C6-C10								

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Released to Imaging: 2/19/2024 8:40:28 AM

Lab Sample ID: MB 880-63229/1-A

Matrix: Solid

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

C10-C28)

C10-C28)

1-Chlorooctane

Matrix: Solid

Analysis Batch: 63178

Gasoline Range Organics (GRO)-C6-C10

Diesel Range Organics (Over

1-Chlorooctane

Matrix: Solid

Analysis Batch: 63178

Gasoline Range Organics (GRO)-C6-C10

Diesel Range Organics (Over

Analysis Batch: 63178

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Lab Sample ID: LCS 880-63229/2-A

Lab Sample ID: LCSD 880-63229/3-A

Method: 8015B NM - Diesel Range Orga

v 154	ŧΗ									SD	G: 32.20976	,-103.8	85272	2
Ran	ge Orç	gan	ics (DR	RO) (GC) (Co	ntinue	∍d)								3
-A		мв	MB							Client S	ample ID: Me Prep Typ Prep B	oe: To	tal/NA	4
			Qualifier	RL		Unit		D	Р	repared	Analyzed		Dil Fac	5
		50.0	-	50.0				_		5/23 12:16			1	6
							5							
	<5	50.0	U	50.0		mg/K	.g		09/2	5/23 12:16	09/25/23 21:	10	1	7
	1	ΜВ	МВ											4
	%Recov	ery	Qualifier	Limits					P	repared	Analyzed	!	Dil Fac	8
		94		70 - 130					09/2	25/23 12:16	09/25/23 21:	:10	1	
		111		70 - 130					09/2	25/23 12:16	09/25/23 21:	:10	1	9
2-A								С	lient	Sample	ID: Lab Con Prep Typ Prop B	pe: To	tal/NA	10
				Spike	LCS	LCS					Prep B %Rec	atcn.	63223	
				Added		Qualifier	Unit		D	%Rec	Limits			
				1000	905.7		mg/Kg			91	70 - 130			
				1000	963.3		mg/Kg			96	70 - 130			13
	LCS I	LCS												
%Re	covery	Qual	ifier	Limits										
	93	_	_	70 - 130										
	99			70 - 130										
9/3-A							Cli	ient	: Sam	iple ID: L	ab Control S. Prep Typ Prep B	pe: To	tal/NA	
				Spike	LCSD	LCSD					%Rec		RPD	
				Added		Qualifier	Unit		D	%Rec	Limits	RPD	Limit	
				1000	264.5	*- *1	mg/Kg			26	70 - 130	110	20	
				1000	33.12	J *- *1	mg/Kg			3	70 - 130	187	20	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	6	S1-	70 - 130
o-Terphenyl	3	S1-	70 - 130

Lab Sample ID: 890-5312-A-1-C Matrix: Solid Analysis Batch: 63178	; MS							Client	Prep Ty	Matrix Spike /pe: Total/NA Batch: 63229
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *- *1	1010	744.6		mg/Kg		74	70 - 130	
Diesel Range Organics (Over	<49.8	U *- *1	1010	769.6		mg/Kg		76	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	84		70 - 130

Eurofins Carlsbad

Job ID: 890-5327-1

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

Lab Sample ID: 890-5312-A	-1-D MSD						Client	Sample IE	D: Matrix Sp	ike Du	plicate
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 63178									Prep	Batch:	63229
	Sample S	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result (Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1010	757.1		mg/Kg		75	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.8 l	J *- *1	1010	792.6		mg/Kg		78	70 - 130	3	20
C10-C28)											
	MSD I	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	91		70 _ 130								
o-Terphenyl	86		70 - 130								
lethod: 300.0 - Anions,	Ion Chromato	graphy									
Lab Sample ID: MB 880-632	262/1-A							Client S	Sample ID: N	/lethod	Blank
Matrix: Solid									Prep 1	Гуре: S	oluble
Analysis Batch: 63423											
	I	MB MB									
Analyte	Res	sult Qualifier	F	L	Unit		D	Prepared	Analyze	∍d	Dil Fac
		.00 U			mg/K				09/27/23 1		

Lab Sample ID: LCS 880-63262/2-A					Client	Sample	ID: Lab Control Sample
Matrix: Solid							Prep Type: Soluble
Analysis Batch: 63423							
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits

· ·····			 	-				
Chloride	250	245.8	 mg/Kg		98	90 _ 110		
Lab Sample ID: LCSD 880-63262/3-A			Client	Sam	ple ID: I	Lab Contro	I Sample	Dup
Matrix: Solid						Prep	Type: So	luble

Anal	vsis	Batch:	63423
And	y 313	Duton.	00420

Analysis Datch. 00420									
	Spike	LCSD	LCSD			%Rec		RPD	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	240.4	mg/Kg		96	90 - 110	2	20	

Lab Sample ID: 890-5326-A-2-D MS	
Matrix: Solid	

Analysis Batch: 63423										
	Sample	Sample	Spike	MS	MS				%Rec	
nalyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
hloride	119		252	385.9		mg/Kg		106	90 - 110	

Lab Sample ID: 890-5326-A-2-E MSD Matrix: Solid Analysis Batch: 63423								Client Sa	ample IC	D: Matrix S Prep	pike Dup Type: S	
		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Chloride	119		252	392.9		mg/Kg		109	90 - 110	2	20

Eurofins Carlsbad

Client Sample ID: Matrix Spike

Prep Type: Soluble

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Job ID: 890-5327-1 SDG: 32.20976,-103.85272

QC Association Summary

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154H Job ID: 890-5327-1

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SDG: 32.20976,-103.85272

GC VOA

Prep Batch: 63241

GC VOA					
rep Batch: 63241					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5327-1	SS05	Total/NA	Solid	5035	
MB 880-63241/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63241/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63241/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5323-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-5323-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
Prep Batch: 63561	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
	·				Prep Batch
MB 880-63561/5-A	Method Blank	Total/NA	Solid	5035	
nalysis Batch: 63582					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5327-1	SS05	Total/NA	Solid	8021B	63241
MB 880-63241/5-A	Method Blank	Total/NA	Solid	8021B	63241
MB 880-63561/5-A	Method Blank	Total/NA	Solid	8021B	63561
LCS 880-63241/1-A	Lab Control Sample	Total/NA	Solid	8021B	63241
LCSD 880-63241/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63241
890-5323-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	63241
890-5323-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	63241

Analysis Batch: 63582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5327-1	SS05	Total/NA	Solid	8021B	63241
MB 880-63241/5-A	Method Blank	Total/NA	Solid	8021B	63241
MB 880-63561/5-A	Method Blank	Total/NA	Solid	8021B	63561
LCS 880-63241/1-A	Lab Control Sample	Total/NA	Solid	8021B	63241
LCSD 880-63241/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63241
890-5323-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	63241
890-5323-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	63241

Analysis Batch: 63811

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5327-1	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 63178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5327-1	SS05	Total/NA	Solid	8015B NM	63229
MB 880-63229/1-A	Method Blank	Total/NA	Solid	8015B NM	63229
LCS 880-63229/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63229
LCSD 880-63229/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63229
890-5312-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	63229
890-5312-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	63229

Prep Batch: 63229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5327-1	SS05	Total/NA	Solid	8015NM Prep	
MB 880-63229/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63229/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63229/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5312-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5312-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

alysis Batch: 63294

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
890-5327-1	SS05	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154H

HPLC/IC

Leach Batch: 63262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-5327-1	SS05	Soluble	Solid	DI Leach		
MB 880-63262/1-A	Method Blank	Soluble	Solid	DI Leach		5
LCS 880-63262/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-63262/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
890-5326-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach		
890-5326-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		
Analysis Batch: 63423						G

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-5327-1	SS05	Soluble	Solid	300.0	63262	
MB 880-63262/1-A	Method Blank	Soluble	Solid	300.0	63262	
LCS 880-63262/2-A	Lab Control Sample	Soluble	Solid	300.0	63262	
LCSD 880-63262/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63262	
890-5326-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	63262	
890-5326-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	63262	

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Job ID: 890-5327-1 SDG: 32.20976,-103.85272

Client Sample ID: SS05 Date Collected: 09/21/23 11:50

Date Received: 09/22/23 08:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	63241	09/25/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63582	09/30/23 12:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63811	09/30/23 12:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			63294	09/26/23 04:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	63229	09/25/23 12:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63178	09/26/23 04:58	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	63262	09/25/23 15:49	SMC	EET MID
Soluble	Analysis	300.0		1			63423	09/27/23 17:03	СН	EET MID

Laboratory References:

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

Job ID: 890-5327-1

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Job ID: 890-5327-1 SDG: 32.20976,-103.85272

Lab Sample ID: 890-5327-1 Matrix: Solid

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-5327-1 Project/Site: PLU 23 Dogtown Draw 154H SDG: 32.20976,-103.85272 Laboratory: Eurofins Midland Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority **Identification Number** Expiration Date Program T104704400-23-26 06-30-24 Texas NELAP The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte 8015 NM Total TPH Solid Total BTEX Solid Total BTEX

Eurofins Carlsbad

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Job ID: 890-5327-1 SDG: 32.20976,-103.85272

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
	STM International Environmental Protection Agency		
SW846 = '	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edi	ition, November 1986 And Its Updates.	
TAL SOP :	 TestAmerica Laboratories, Standard Operating Procedure 		
Laboratory R			
EET MID :	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Laboratory References:

Eurofins Carlsbad

Sample Summary

Client: Ensolum Project/Site: PLU 23 Dogtown Draw 154H Job ID: 890-5327-1 SDG: 32.20976,-103.85272

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-5327-1	SS05	Solid	09/21/23 11:50	09/22/23 08:08	0.5'	

Page of L	nents	Brownfields RRC Superfund	1	ST	Other:	Preservative Codes	None: NO DI Water: H ₂ O	lo	HCL:HC HNO 3:HN		NaHSO 4: NABIS	Na 25 203: NaSO 3	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments	Inciclent #:	APP2316446282	ast Center:	2219811001	moderty@encolum.com		TI Sn U V Zn 7470 / 7471		Date/Time			Revised Date: 08/25/2020 Rev. 2020.2	
Work Order No:	Work Order Comments	Program: UST/PST PRP Brownf	1	evel II 🗌 Level III 🗍	Deliverables: EDD ADaPT	-	Z		Ĭ				Zr	Z						2		K Se Ag SiO ₂ Na Sr Hg: 1631/245.1/	nd conditions d the control eviously negotiated.	 Received by: (Signature) 				
Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (91 5) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Garrett Green		. St	Carisbady NM 88220	Censolum com	ANALYSIS REQUEST					890-5327 Chain of Custody			101	102.		~~~~~					Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni CRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco. Will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco. Aminimum 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.	Date/Time Relinquished by: (Signature)	8/.C/X 2	4 /	5	
Chail Houston, TX (281) 2 Midland, TX (432) 704 EL Paso, TX (915) 58 Hobbs, NM (575) 39	Bill to: (if different)		Address:	City, State ZIP:	Email: blochill	Turn Around	e 🗌 Rush Code	ii	TAT starts the day received by	Т	I INNOT	30	2.6	» ک ک	Depth Grab/ # of Comp Cont	5 12 0	2					8RCRA 13PPM Texas 11 AI Sb As TCLP/SPLP6010 : 8RCRA Sb As	a order from client company to Eurofins Xer esponsibility for any losses or expenses Incu sf 55 for each sample submitted to Eurofins	ture) Dat	uny year			
Environment Testing Xenco	Reitil	Ensolumitle	Natil Parks Hmy	2	989.854.0853 Em	PLU 23 Datown Draw (54H T	Rout	32.20976-103.85-272 Due Date:	Ruberts	;	Vec No Thermometer ID:	R	(A/A)	Corrected Temperature:	Matrix Date Time		14/12					8RCR	lishment of samples constitutes a valid purchase t the cost of samples and shall not assume any n 0 will be applied to each project and a charge o	Received by: Dignature)			_	
💸 eurofins	Project Manager		~	City, State ZIP: Carls	Phone: 989	Project Name: PLM 23 Co	er:	Project Location: 32-0097	Sampler's Name: Mcredit	_	SAMPLE RECEIPT Tem	-) se	:: Yes	Total Containers:	Sample Identification	5605	510					Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Notice: Signature of this document and relinque of service. Eurofins Xenco will be liable only fou of Eurofins Xenco. Aminimum charge of \$85.0	Relinquished by: (Signature)	1 probles	3	2	

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5 6

11 12 13

10/2/2023

Released to Imaging: 2/19/2024 8:40:28 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5327 List Number: 1 Creator: Bruns, Shannon

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
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.	N/A	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Job Number: 890-5327-1

SDG Number: 32.20976,-103.85272

List Source: Eurofins Midland

List Creation: 09/25/23 09:54 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5327 List Number: 2 Creator: Rodriguez, Leticia

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

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



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 11/10/2023 8:50:20 AM Revision 1

JOB DESCRIPTION

PLU 23 Dog Town Draw 154H SDG NUMBER 03C1558250

JOB NUMBER

890-5496-1

ED FC Ben Be Ensolu ienfeld Suite 4 xas 797 M Revisio

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contect information

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 11/10/2023 8:50:20 AM Revision 1

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

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



Laboratory Job ID: 890-5496-1 SDG: 03C1558250

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Definitions/Glossary

Client: Ensolum	
Project/Site: PLU 23 Dog Town Draw	154H

(

Qualifier	'S	3
GC VOA Qualifier	Qualifier Description	4
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi V	/0A	
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	8
HPLC/IC		
Qualifier	Qualifier Description	9
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	

Glossary

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

11/10/2023 (Rev. 1)

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Job ID: 890-5496-1 SDG: 03C1558250 Zoho Sign Document ID: 316041F4-R_IR9.JITD3UOCSPLMGI765ZSWUDLCCJHF7F9GN7SCHG Received by UCD: 11/22/2023 11:46:43 AM

Case Narrative

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Job ID: 890-5496-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5496-1

REVISION

The report being provided is a revision of the original report sent on 10/26/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID correction.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/19/2023 3:34 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 -0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-5496-1), BH01A (890-5496-2), BH02 (890-5496-3), BH02A (890-5496-4), BH03 (890-5496-5), SS06 (890-5496-6) and SS07 (890-5496-7).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH01A (890-5496-2), BH02 (890-5496-3), BH03 (890-5496-5), SS06 (890-5496-6) and SS07 (890-5496-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65488 and analytical batch 880-65513 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65395 and analytical batch 880-65434 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS06 (890-5496-6), SS07 (890-5496-7) and (890-5496-A-6-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65394 and analytical batch 880-65440 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-34703-A-41-C MS) and (880-34703-A-41-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-65394 and analytical batch 880-65440 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference

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Job ID: 890-5496-1 SDG: 03C1558250

Case Narrative

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H Job ID: 890-5496-1 SDG: 03C1558250

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Job ID: 890-5496-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-65479 and analytical batch 880-65494 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Client Sample ID: BH01 Date Collected: 10/19/23 09:15 Date Received: 10/19/23 15:34 Sample Depth: 1

202 U 202 U 202 U 403 U 202 U 202 U 403 U		0.00202 0.00202 0.00202 0.00403	mg/Kg mg/Kg mg/Kg		10/23/23 15:15 10/23/23 15:15	10/25/23 22:53	1
202 U 403 U 202 U		0.00202 0.00403	• •		10/23/23 15:15		1
403 U 202 U		0.00403	mg/Kg			10/25/23 22:53	1
202 U					10/23/23 15:15	10/25/23 22:53	1
			mg/Kg		10/23/23 15:15	10/25/23 22:53	1
403 U		0.00202	mg/Kg		10/23/23 15:15	10/25/23 22:53	1
		0.00403	mg/Kg		10/23/23 15:15	10/25/23 22:53	1
ery Qu	ualifier	Limits			Prepared	Analyzed	Dil Fac
80		70 - 130			10/23/23 15:15	10/25/23 22:53	1
94		70 - 130			10/23/23 15:15	10/25/23 22:53	1
тех с	Calculati	on					
sult Qu	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
403 U		0.00403	mg/Kg			10/25/23 22:53	1
ae Ora	anics (I	DRO) (GC)					
-		RL	Unit	D	Prepared	Analyzed	Dil Fac
50.1 U		50.1	mg/Kg			10/24/23 17:34	1
nge Oi	rganics	(DRO) (GC)					
-							
sult Qu	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sult Qu 50.1 U	ualifier		Unit mg/Kg	D	Prepared 10/23/23 16:06	Analyzed 10/24/23 17:34	Dil Fac
	ualifier			<u>D</u>	10/23/23 16:06		Dil Fac
50.1 U	Jalifier	RL 50.1	mg/Kg	<u> </u>	10/23/23 16:06 10/23/23 16:06	10/24/23 17:34	1
i0.1 U		RL 50.1	mg/Kg mg/Kg	<u>D</u>	10/23/23 16:06 10/23/23 16:06	10/24/23 17:34 10/24/23 17:34	1
50.1 U 50.1 U 50.1 U		RL 50.1 50.1 50.1	mg/Kg mg/Kg	<u>D</u>	10/23/23 16:06 10/23/23 16:06 10/23/23 16:06	10/24/23 17:34 10/24/23 17:34 10/24/23 17:34	1 1 1
	80 94 BTEX (sult Qu 403 U ge Org sult Qu 50.1 U	80 94 BTEX Calculati sult Qualifier 403 U ge Organics (I sult Qualifier 50.1 U	80 70 - 130 94 70 - 130 STEX Calculation sult Qualifier RL 403 0 0.00403 ge Organics (DRO) (GC) sult Qualifier RL	80 70 - 130 94 70 - 130 BTEX Calculation Sult Qualifier RL Unit 403 U 0.00403 mg/Kg ge Organics (DRO) (GC) sult Qualifier RL Unit 50.1 U 50.1 mg/Kg	80 70 - 130 94 70 - 130 STEX Calculation Suit Qualifier RL Unit D 403 0 0.00403 mg/Kg D ge Organics (DRO) (GC) sult Qualifier RL Unit D 50.1 0 50.1 mg/Kg D	80 70 - 130 10/23/23 15:15 94 70 - 130 10/23/23 15:15 STEX Calculation Sult Qualifier RL Unit D Prepared 403 U 0.00403 mg/Kg D Prepared Ge Organics (DRO) (GC) Sult Qualifier RL Unit D Prepared 50.1 U 50.1 mg/Kg D Prepared	80 70 - 130 10/23/23 15:15 10/25/23 22:53 94 70 - 130 10/23/23 15:15 10/25/23 22:53 BTEX Calculation sult Qualifier RL Unit D Prepared Analyzed 403 U 0.00403 mg/Kg D Prepared Analyzed ge Organics (DRO) (GC) unit D Prepared Analyzed

Client Sample ID: BH01A Date Collected: 10/19/23 11:15 Date Received: 10/19/23 15:34 Sample Depth: 2

Chloride

Method: SW846 8021B - Vo	olatile Organic							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:15	10/25/23 23:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:15	10/25/23 23:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:15	10/25/23 23:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/23/23 15:15	10/25/23 23:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:15	10/25/23 23:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/23/23 15:15	10/25/23 23:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/23/23 15:15	10/25/23 23:13	1

5.05

mg/Kg

689 F1

Eurofins Carlsbad

10/24/23 20:55

Lab Sample ID: 890-5496-2

1

Matrix: Solid

ID 800 5406 1

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5

Job ID: 890-5496-1 SDG: 03C1558250

Lab Sample ID: 890-5496-1

Matrix: Solid

Zoho Sign Document ID: 316041F4-R_IR9.IITD3UQCSPLMGI765ZSWUDLCCJHF7F9GN7SCHG Received by OCD: 11/22/2023 11:46:43 AM

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

%Recovery Qualifier

59 S1-

Result Qualifier

Result Qualifier

<50.5 U

<0.00398 U

Client Sample Results

Limits

70 - 130

RL

RL

50.5

0.00398

Unit

mg/Kg

Unit

mg/Kg

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Dil Fac

Dil Fac

Dil Fac

Dil Fac

Matrix: Solid

1

1

Job ID: 890-5496-1 SDG: 03C1558250

Client Sample ID: BH01A Date Collected: 10/19/23 11:15

Project/Site: PLU 23 Dog Town Draw 154H

Client: Ensolum

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

1,4-Difluorobenzene (Surr)

Date Received: 10/19/23 15:34 Sample Depth: 2

Lab Sample ID: 890-5496-2

Analyzed

Analyzed

10/25/23 23:13

Analyzed

10/24/23 17:56

Lab Sample ID: 890-5496-3

10/23/23 15:15 10/25/23 23:13

Prepared

Prepared

Prepared

D

D

Matrix: Solid

8
9

1	
Dil Fac	
1	
1	13

Method: SW846 8015B NM - D	Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed			
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		10/23/23 16:06	10/24/23 17:56			
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		10/23/23 16:06	10/24/23 17:56			
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		10/23/23 16:06	10/24/23 17:56			
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed			

	·····,				· · · · · · · · · · · · · · · · · · ·	
1-Chlorooctane	80		70 - 130	10/23/23 16:06	10/24/23 17:56	1
o-Terphenyl	90		70 - 130	10/23/23 16:06	10/24/23 17:56	1
	on Chromat	tography -	Soluble			

Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	240	5.01	mg/Kg			10/24/23 21:15	1

Client Sample ID: BH02 Date Collected: 10/19/23 09:40 Date Received: 10/19/23 15:34

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:15	10/25/23 23:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:15	10/25/23 23:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:15	10/25/23 23:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/23/23 15:15	10/25/23 23:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:15	10/25/23 23:33	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/23/23 15:15	10/25/23 23:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			10/23/23 15:15	10/25/23 23:33	1
1,4-Difluorobenzene (Surr)	55	S1-	70 - 130			10/23/23 15:15	10/25/23 23:33	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/23 23:33	1
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	120		50.3	mg/Kg			10/24/23 18:18	

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Released to Imaging: 2/19/2024 8:40:28 AM

Client Sample Results

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Client Sample ID: BH02 Date Collected: 10/19/23 09:40 Date Received: 10/19/23 15:34

Sample Depth: 1

Method: SW846 8015B NM - I Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		10/23/23 16:06	10/24/23 18:18	
Diesel Range Organics (Over C10-C28)	120		50.3	mg/Kg		10/23/23 16:06	10/24/23 18:18	
Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		10/23/23 16:06	10/24/23 18:18	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	85		70 - 130			10/23/23 16:06	10/24/23 18:18	
o-Terphenyl	98		70 - 130			10/23/23 16:06	10/24/23 18:18	
Method: EPA 300.0 - Anions,								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	582		5.05	mg/Kg			10/24/23 21:22	
lient Sample ID: BH02A						Lab Samp	le ID: 890-5	5 496 .
ate Collected: 10/19/23 11:30							Matrix	c: Sol
ate Received: 10/19/23 15:34								
ample Depth: 2								
Method: SW846 8021B - Vola	tile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Benzene	<0.00201	U	0.00201	mg/Kg		10/23/23 15:15	10/25/23 23:54	
oluene	<0.00201	U	0.00201	mg/Kg		10/23/23 15:15	10/25/23 23:54	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/23/23 15:15	10/25/23 23:54	
n-Xylene & p-Xylene	< 0.00402	U	0.00402	mg/Kg		10/23/23 15:15	10/25/23 23:54	
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/23/23 15:15	10/25/23 23:54	
Kylenes, Total	<0.00402	U	0.00402	mg/Kg		10/23/23 15:15	10/25/23 23:54	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	91		70 - 130			10/23/23 15:15	10/25/23 23:54	
1,4-Difluorobenzene (Surr)	74		70 - 130			10/23/23 15:15	10/25/23 23:54	
Method: TAL SOP Total BTE>	(- Total BTE	X Calculat	ion					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/23 23:54	
Method: SW846 8015 NM - Di	esel Range	Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Total TPH	<49.7	U	49.7	mg/Kg			10/24/23 18:40	
Method: SW846 8015B NM - I			(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg	_	10/23/23 16:06	10/24/23 18:40	
	<49.7	U	49.7	mg/Kg		10/23/23 16:06	10/24/23 18:40	
Diesel Range Organics (Over C10-C28)			49.7	mg/Kg		10/23/23 16:06	10/24/23 18:40	
C10-C28)	<49.7	U	40.7	0 0				
C10-C28) Oll Range Organics (Over C28-C36)	<49.7 %Recovery		Limits			Prepared	Analyzed	Dil F
5 5 (Analyzed 10/24/23 18:40	Dil F

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5

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Matrix: Solid

Lab Sample ID: 890-5496-3

Zoho Sign Document ID: 316041F4-R_IR9.IITD3UOCSPLMGI765ZSWUDLCCJHF7F9GN7SCHG Received by OCD: 11/22/2023 11:46:43 AM

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		Client	Sample Res	sults				
Client: Ensolum Project/Site: PLU 23 Dog Town E)raw 154H						Job ID: 890- SDG: 03C1	
Client Sample ID: BH02A Date Collected: 10/19/23 11:30 Date Received: 10/19/23 15:34 Sample Depth: 2						Lab Samp	le ID: 890-5 Matrix	6496-4 :: Solid
Method: EPA 300.0 - Anions, Analyte		t <mark>ography</mark> Qualifier	- Soluble RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		5.04	mg/Kg			10/24/23 21:42	1
Client Sample ID: BH03 Date Collected: 10/19/23 10:05 Date Received: 10/19/23 15:34 Sample Depth: 1						Lab Samp	le ID: 890-5 Matrix	496-5 : Solid
Method: SW846 8021B - Volat Analyte		Compoun Qualifier	<mark>ds (GC)</mark> RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		10/23/23 15:15	10/26/23 00:14	1
Toluene	< 0.00200		0.00200	mg/Kg			10/26/23 00:14	1
Ethylbenzene	< 0.00200		0.00200	mg/Kg			10/26/23 00:14	1
m-Xylene & p-Xylene	< 0.00401		0.00401	mg/Kg			10/26/23 00:14	
o-Xylene	< 0.00200		0.00200	mg/Kg			10/26/23 00:14	1
Xylenes, Total	<0.00401		0.00401	mg/Kg			10/26/23 00:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			10/23/23 15:15	10/26/23 00:14	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130			10/23/23 15:15	10/26/23 00:14	1
Method: TAL SOP Total BTEX	- Total BTE	X Calcula	tion					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/26/23 00:14	1
Method: SW846 8015 NM - Die	esel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	481		49.9	mg/Kg			10/24/23 19:01	1
Method: SW846 8015B NM - D		-						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/23/23 16:06	10/24/23 19:01	1
Diesel Range Organics (Over C10-C28)	481		49.9	mg/Kg		10/23/23 16:06	10/24/23 19:01	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/23/23 16:06	10/24/23 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			10/23/23 16:06	10/24/23 19:01	1
o-Terphenyl	94		70 - 130			10/23/23 16:06	10/24/23 19:01	1
Method: EPA 300.0 - Anions,	lon Chroma	tography	- Soluble					
Method. El A 500.0 - Allolis,								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Client Sample Results

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Client Sample ID: SS06 Date Collected: 10/19/23 10:30 Date Received: 10/19/23 15:34

Sample Depth: .5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:15	10/26/23 00:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:15	10/26/23 00:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:15	10/26/23 00:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/23/23 15:15	10/26/23 00:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:15	10/26/23 00:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/23/23 15:15	10/26/23 00:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			10/23/23 15:15	10/26/23 00:35	1
1,4-Difluorobenzene (Surr)	53	S1-	70 - 130			10/23/23 15:15	10/26/23 00:35	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398		0.00398	mg/Kg			10/26/23 00:35	

	Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
l	Total TPH	56.2		49.9	mg/Kg			10/24/23 20:23	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)											
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/23/23 16:10	10/24/23 20:23	1			
Diesel Range Organics (Over C10-C28)	56.2		49.9	mg/Kg		10/23/23 16:10	10/24/23 20:23	1			
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/23/23 16:10	10/24/23 20:23	1			
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac			
1-Chlorooctane	142	S1+	70 - 130			10/23/23 16:10	10/24/23 20:23	1			
o-Terphenyl	144	S1+	70 - 130			10/23/23 16:10	10/24/23 20:23	1			

	Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
l	Chloride	181		5.01	mg/Kg			10/24/23 21:55	1		

Client Sample ID: SS07 Date Collected: 10/19/23 10:35 Date Received: 10/19/23 15:34 Sample Depth: .5

Method: SW846 8021B - Vo Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/23/23 15:15	10/26/23 00:55	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/23/23 15:15	10/26/23 00:55	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/23/23 15:15	10/26/23 00:55	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/23/23 15:15	10/26/23 00:55	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/23/23 15:15	10/26/23 00:55	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/23/23 15:15	10/26/23 00:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			10/23/23 15:15	10/26/23 00:55	1

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Job ID: 890-5496-1 SDG: 03C1558250

Lab Sample ID: 890-5496-6

Matrix: Solid

Lab Sample ID: 890-5496-7

Matrix: Solid

5

Zoho Sign Document ID: 316041F4-R_IR9.JITD3UOCSPLMGI765ZSWUDLCCJHF7F9GN7SCHG Received by OCD: 11/22/2023 11:46:43 AM

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

%Recovery Qualifier

64 S1-

Result Qualifier

Client Sample Results

Limits

70 - 130

RL

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Job ID: 890-5496-1 SDG: 03C1558250

Client Sample ID: SS07 Date Collected: 10/19/23 10:35

Project/Site: PLU 23 Dog Town Draw 154H

Client: Ensolum

Surrogate

Analyte

1,4-Difluorobenzene (Surr)

Date Received: 10/19/23 15:34 Sample Depth: .5

		``	500	. 050	10002	200
Lab	Sam	ple	ID:	890-	5496	6-7

Analyzed

Analyzed

10/23/23 15:15 10/26/23 00:55

Prepared

Prepared

D

Matrix: Solid

Dil Fac

Dil Fac

1

						•		
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/26/23 00:55	1
	esel Range (Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.3		50.3	mg/Kg			10/24/23 21:26	1
_ Method: SW846 8015B NM - D)iesel Range	organics	(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.3	U	50.3	mg/Kg		10/23/23 16:10	10/24/23 21:26	1
(GRO)-C6-C10								
Diesel Range Organics (Over	54.3		50.3	mg/Kg		10/23/23 16:10	10/24/23 21:26	1
C10-C28)								
C10-C28) Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		10/23/23 16:10	10/24/23 21:26	1
,	<50.3 %Recovery		50.3 <i>Limits</i>	mg/Kg		10/23/23 16:10 Prepared	10/24/23 21:26 Analyzed	1 Dil Fac
Oll Range Organics (Over C28-C36)	%Recovery			mg/Kg			Analyzed	1 <u>Dil Fac</u> 1

Unit

Me	Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
An	alyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Ch	loride	182		4.96	mg/Kg			10/24/23 22:02	1		

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Released to Imaging: 2/19/2024 8:40:28 AM

Surrogate Summary

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

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

			Perc	ent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-5496-1	BH01	80	94		
890-5496-1 MS	BH01	110	92		6
890-5496-1 MSD	BH01	107	116		
890-5496-2	BH01A	95	59 S1-		
890-5496-3	BH02	89	55 S1-		
890-5496-4	BH02A	91	74		9
890-5496-5	BH03	87	65 S1-		U
890-5496-6	SS06	91	53 S1-		6
890-5496-7	SS07	89	64 S1-		3
LCS 880-65373/1-A	Lab Control Sample	109	100		
LCSD 880-65373/2-A	Lab Control Sample Dup	107	116		
MB 880-65373/5-A	Method Blank	70	78		
MB 880-65488/5-A	Method Blank	68 S1-	97		
Surrogate Legend					
BFB = 4-Bromofluorob	enzene (Surr)				

DFBZ = 1,4-Difluorobenzene (Surr)

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

_			Pe
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-34703-A-41-C MS	Matrix Spike	71	66 S1-
880-34703-A-41-D MSD	Matrix Spike Duplicate	72	68 S1-
890-5496-1	BH01	77	91
890-5496-2	BH01A	80	90
890-5496-3	BH02	85	98
890-5496-4	BH02A	88	100
890-5496-5	BH03	83	94
890-5496-6	SS06	142 S1+	144 S1+
890-5496-6 MS	SS06	129	115
890-5496-6 MSD	SS06	142 S1+	135 S1+
890-5496-7	SS07	150 S1+	152 S1+
LCS 880-65394/2-A	Lab Control Sample	91	100
LCS 880-65395/2-A	Lab Control Sample	116	123
LCSD 880-65394/3-A	Lab Control Sample Dup	84	90
LCSD 880-65395/3-A	Lab Control Sample Dup	106	105
MB 880-65394/1-A	Method Blank	112	134 S1+
MB 880-65395/1-A	Method Blank	189 S1+	194 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-5496-1 SDG: 03C1558250

Prep Type: Total/NA

Prep Type: Total/NA

Page 102 of 126

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65373/5-A
Matrix: Solid
Analysis Batch: 65513

	MD	MD						
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:15	10/25/23 22:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:15	10/25/23 22:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:15	10/25/23 22:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/23/23 15:15	10/25/23 22:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:15	10/25/23 22:31	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/23/23 15:15	10/25/23 22:31	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130			10/23/23 15:15	10/25/23 22:31	1
1,4-Difluorobenzene (Surr)	78		70 - 130			10/23/23 15:15	10/25/23 22:31	1

Lab Sample ID: LCS 880-65373/1-A **Matrix: Solid** Analysis Batch: 65513

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08811		mg/Kg		88	70 - 130	
Toluene	0.100	0.09966		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.1016		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2142		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1048		mg/Kg		105	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-65373/2-A Matrix: Solid

Analysis Batch: 65513

Analysis Batch: 65513							Prep Batch: 65373			
-	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08723		mg/Kg		87	70 - 130	1	35	
Toluene	0.100	0.09147		mg/Kg		91	70 - 130	9	35	
Ethylbenzene	0.100	0.09156		mg/Kg		92	70 - 130	10	35	
m-Xylene & p-Xylene	0.200	0.1916		mg/Kg		96	70 - 130	11	35	
o-Xylene	0.100	0.09328		mg/Kg		93	70 - 130	12	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: 890-5496-1 MS Matrix: Solid

Prep Type: Total/NA Analysis Batch: 65513 Prep Batch: 65373 MS MS %Rec Sample Sample Spike Analyte **Result Qualifier** Added **Result Qualifier** Unit %Rec Limits D mg/Kg Benzene <0.00202 U 0.0996 0.07398 74 70 - 130 Toluene <0.00202 U 0.0996 0.08103 mg/Kg 81 70 - 130

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Client Sample ID: BH01

Job ID: 890-5496-1 SDG: 03C1558250

Prep Type: Total/NA Prep Batch: 65373

Client Sample ID: Method Blank

5 7

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

tch:	65373	

Prep Bat

Spike

Added

0.0996

0.199

0.0996

Limits

70 - 130

70 - 130

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Lab Sample ID: 890-5496-1 MS

Analysis Batch: 65513

4-Bromofluorobenzene (Surr)

Lab Sample ID: 890-5496-1 MSD

1,4-Difluorobenzene (Surr)

Matrix: Solid

Analyte

o-Xylene

Surrogate

Matrix: Solid

Ethylbenzene

m-Xylene & p-Xylene

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

Sample Sample

MS MS

%Recovery Qualifier

110

92

<0.00202 U

<0.00403 U

<0.00202 U

Result Qualifier

Job ID: 890-5496-1 SDG: 03C1558250

Client Sample ID: BH01

%Rec

Limits

70 - 130

70 - 130

70 - 130

D %Rec

80

84

81

Prep Type: Total/NA

Prep Batch: 65373

Client Sample ID: BH01
Prep Type: Total/NA
Pren Batch: 65373

Analysis Batch: 65513									Prep E	Batch: 6537		
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00202	U	0.0992	0.07999		mg/Kg		81	70 - 130	8	35	
Toluene	<0.00202	U	0.0992	0.08196		mg/Kg		83	70 - 130	1	35	
Ethylbenzene	<0.00202	U	0.0992	0.08012		mg/Kg		81	70 - 130	1	35	13
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1656		mg/Kg		83	70 - 130	1	35	
o-Xylene	<0.00202	U	0.0992	0.07947		mg/Kg		80	70 - 130	1	35	

MS MS

0.07970

0.1675

0.08061

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: MB 880-65488/5-A Matrix: Solid Analysis Batch: 65513

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 65488

MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		10/24/23 14:38	10/25/23 11:52	1
<0.00200	U	0.00200	mg/Kg		10/24/23 14:38	10/25/23 11:52	1
<0.00200	U	0.00200	mg/Kg		10/24/23 14:38	10/25/23 11:52	1
<0.00400	U	0.00400	mg/Kg		10/24/23 14:38	10/25/23 11:52	1
<0.00200	U	0.00200	mg/Kg		10/24/23 14:38	10/25/23 11:52	1
<0.00400	U	0.00400	mg/Kg		10/24/23 14:38	10/25/23 11:52	1
МВ	МВ						
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
68	S1-	70 - 130			10/24/23 14:38	10/25/23 11:52	1
97		70 - 130			10/24/23 14:38	10/25/23 11:52	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	Result Qualifier RL Unit Prepared Analyzed <0.00200

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

Lab Sample ID: MB 880-65394/1-/ Matrix: Solid Analysis Batch: 65440				le ID: Method Prep Type: To Prep Batch:	otal/NA			
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/K	g	10/23/23 16:06	10/24/23 07:37	1

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Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

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

MB Qualifier U U MB Qualifier S1+	- Ri 50.0 50.0 - Limits 70 - 130 70 - 130		<mark>Unit</mark> mg/k mg/k	â	— 10// 10// 10/ 10/ 10/	Prepared /23/23 16:06 /23/23 16:06 Prepared /23/23 16:06 /23/23 16:06 ample ID:	10/24/23 07:37 Analyzed	Dil Fac
Qualifier U U MB Qualifier	50.0 50.0 <u>Limits</u> 70 - 130 70 - 130		mg/k	â	10/. 10/. 10/. 10/ 10/	23/23 16:06 23/23 16:06 Prepared 23/23 16:06 23/23 16:06 ample ID:	Analyzed 10/24/23 07:37 10/24/23 07:37 Analyzed 10/24/23 07:37 10/24/23 07:37 10/24/23 07:37 Lab Control \$	Dil Fac
Qualifier U U MB Qualifier	50.0 50.0 <u>Limits</u> 70 - 130 70 - 130		mg/k	â	10/. 10/. 10/. 10/ 10/	23/23 16:06 23/23 16:06 Prepared 23/23 16:06 23/23 16:06 ample ID:	10/24/23 07:37 10/24/23 07:37 Analyzed 10/24/23 07:37 10/24/23 07:37 Lab Control \$	Dil Fac
U U MB Qualifier	50.0 50.0 <u>Limits</u> 70 - 130 70 - 130		mg/k	â	10/. 10/. 10/. 10/ 10/	23/23 16:06 23/23 16:06 Prepared 23/23 16:06 23/23 16:06 ample ID:	10/24/23 07:37 10/24/23 07:37 Analyzed 10/24/23 07:37 10/24/23 07:37 Lab Control \$	Dil Fac
U MB Qualifier	50.0 		-	g	10/ 10/ 10/	23/23 16:06 Prepared 23/23 16:06 23/23 16:06 ample ID:	10/24/23 07:37 <u>Analyzed</u> 10/24/23 07:37 10/24/23 07:37 Lab Control \$	Dil Fac
MB Qualifier	Limits 70 - 130 70 - 130		mg/ዞ	-	1 10/ 10/	Prepared /23/23 16:06 /23/23 16:06 ample ID:	Analyzed 10/24/23 07:37 10/24/23 07:37 Lab Control \$	Dil Fac
Qualifier	70 - 130 70 - 130			Clie	10/ 10/	/23/23 16:06 /23/23 16:06 ample ID:	10/24/23 07:37 10/24/23 07:37 Lab Control \$	Sample
	70 - 130 70 - 130	-		Clie	10/ 10/	/23/23 16:06 /23/23 16:06 ample ID:	10/24/23 07:37 10/24/23 07:37 Lab Control \$	Sample
S1+	70 - 130	-		Clie	10/	/23/23 16:06	10/24/23 07:37	Sample
S1+				Clie		ample ID:	Lab Control S	Sample
	Spike			Clie	nt Sa			
	Spike	-	LCS				Prep Batch %Rec	. 0009
	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	1000	902.5		mg/Kg		90	70 - 130	
	1000	898.6		mg/Kg		90	70 - 130	
	1 : : 6							
imer								
//	fier		fier Limits 70 - 130	fier <u>Limits</u> 70 - 130 70 - 130	fier <u>Limits</u> 70 - 130 70 - 130	fier <u>Limits</u> 70 - 130 70 - 130	fier <u>Limits</u> 70 - 130 70 - 130 Client Sample ID: Lab	fier <u>Limits</u> 70 - 130

Allalysis Balcil. 03440							Fiehe	Frep Batch. 05554		
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	815.9		mg/Kg		82	70 - 130	10	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	820.3		mg/Kg		82	70 - 130	9	20	
C10-C28)										

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

Lab Sample ID: 880-34703-A-41-C MS Matrix: Solid ----

Analysis Batch: 65440									Prep I	Batch: 65394
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	999	600.6	F1	mg/Kg		58	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U F1	999	595.9	F1	mg/Kg		60	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	71		70 - 130
o-Terphenyl	66	S1-	70 - 130

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Job ID: 890-5496-1

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

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

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

 Lab Sample ID: 880-34703-/	4.41.D MS							Client	Sa	mn	le ID: Ma	atrix Sn	nike Dur	olicate	
Matrix: Solid		0						onem	Ja	mp			ype: To		
Analysis Batch: 65440													Batch:		
	Sample	San	aple	Spike		MSD	MSD					%Rec		RPD	5
Analyte	Result			Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.8	U F	1	999		623.5	F1	mg/Kg		_	61	70 - 130	4	20	
(GRO)-C6-C10															
Diesel Range Organics (Over C10-C28)	<49.8	U F ¹	1	999		641.9	F1	mg/Kg			64	70 - 130	7	20	7
	MSD	MSI	D												
Surrogate	%Recovery	Que	alifier	Limits											0
1-Chlorooctane	72			70 - 130											0
o-Terphenyl	68	S1-		70 - 130											9
Lab Sample ID: MB 880-653	395/1-A								0	Clie	ent Samp				
Matrix: Solid													ype: To		
Analysis Batch: 65434												Prep	Batch:	65395	
	_		MB							_	_		_		
Analyte			Qualifier		RL		Unit		<u>D</u> .		repared		yzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10		50.0			50.0		mg/K				3/23 16:10			1	13
Diesel Range Organics (Over C10-C28)		50.0	U		50.0		mg/K	g		10/2	3/23 16:10	10/24/2	3 19:19	1	
Oll Range Organics (Over C28-C36)) </td <td>50.0</td> <td></td> <td></td> <td>50.0</td> <td></td> <td>mg/K</td> <td>(g</td> <td></td> <td>10/2</td> <td>3/23 16:10</td> <td>10/24/2</td> <td>3 19:19</td> <td>1</td> <td></td>	50.0			50.0		mg/K	(g		10/2	3/23 16:10	10/24/2	3 19:19	1	
			MB							_	_	_	-		
Surrogate	%Reco		Qualifier						-		repared		yzed	Dil Fac	
1-Chlorooctane			S1+	70 - 1							23/23 16:10		3 19:19	1	
o-Terphenyl		194	S1+	70 - 1	130					10/2	23/23 16:10	10/24/2	3 19:19	1	
Lab Sample ID: LCS 880-65	205/2-0							Clie	ont	Sar	mple ID:	Lah Co	ontrol S	amnla	
Matrix: Solid	33312-m							One	211C -	Jai	The P.		ype: To		
Analysis Batch: 65434													Batch:		
Allarysis Daton. 00404				Spike		LCS	LCS					%Rec	Daten	00000	
Analyte				Added		-	Qualifier	Unit		D	%Rec	Limits			
Gasoline Range Organics				1000		1055		mg/Kg		_	105	70 - 130			
(GRO)-C6-C10															
Diesel Range Organics (Over C10-C28)				1000		1139		mg/Kg			114	70 - 130			
	LCS	1.05	:												
Surrogate	%Recovery			Limits											
1-Chlorooctane	116			70 - 130											
o-Terphenyl	123			70 - 130											
	120			10-100											
Lab Sample ID: LCSD 880-6 Matrix: Solid	35395/3-A						C	Client Sa	amı	ple	ID: Lab		l Sampl ype: To		
Analysis Batch: 65434													Batch:		
Analysis Batch. 03434				Spike			LCSD					%Rec	Datch.	RPD	
Analyte				Added			Qualifier	Unit		D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics				1000		1113		mg/Kg		2	111 -	70 - 130			
				1000		1113		mg/Kg			111	10-130	Э	20	

Α Gasoline Range Organics 1000 1113 mg/Kg 111 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 933.2 mg/Kg 93 70 - 130 20 20 C10-C28)

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Job ID: 890-5496-1

SDG: 03C1558250

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

_ab Sample ID: LCSD 88 Matrix: Solid Analysis Batch: 65434	0-65395/3-A				C	Client Sa	mple	ID: Lat	Control Prep Ty Prep E		al/N
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
-Chlorooctane	106		70 - 130								
-Terphenyl	105		70 - 130								
_ab Sample ID: 890-5496	-6 MS							С	lient Sam	ple ID:	SS0
Matrix: Solid									Prep Ty	•	
Analysis Batch: 65434										Batch: 6	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	-	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics GRO)-C6-C10	<49.9	U	992	826.3		mg/Kg		80	70 - 130		
Diesel Range Organics (Over 210-C28)	56.2		992	942.8		mg/Kg		89	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
-Chlorooctane	129		70 - 130								
-Terphenyl	115		70 - 130								
_ab Sample ID: 890-5496	-6 MSD							С	lient Sam	ple ID:	SS0
Matrix: Solid									Prep Ty	•	
Analysis Batch: 65434										atch: 6	
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	•	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics GRO)-C6-C10	<49.9		992	898.7		mg/Kg		87	70 - 130	8	
)iesel Range Organics (Over 210-C28)	56.2		992	1068		mg/Kg		102	70 - 130	12	2
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
-Chlorooctane	142	S1+	70 - 130								
-Terphenyl	135	S1+	70 - 130								
ethod: 300.0 - Anion	e lon Chr	ometoar	anhy								

Matrix: Solid										Prep Type: \$	Soluble
Analysis Batch: 65494											
	MB	MB									
Analyte	Result	Qualifier		RL		Unit	D) Р	repared	Analyzed	Dil Fac
Chloride	<5.00	U		5.00		mg/Kg	g			10/24/23 19:02	1
Lab Sample ID: LCS 880-65479/2-A Matrix: Solid Analysis Batch: 65494							Clier	nt Sai	mple ID:	Lab Control S Prep Type: S	
-			Spike		LCS	LCS				%Rec	
Analyte			Added	l	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250		237.2		mg/Kg		95	90 - 110	

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Job ID: 890-5496-1

SDG: 03C1558250

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 65494	-65479/3-A				C	Client Sa	mple	ID: Lab	Control S Prep Ty			
			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride			250	229.5		mg/Kg		92	90 - 110	3	20	
Lab Sample ID: 890-5496- Matrix: Solid Analysis Batch: 65494	1 MS							Client Sample ID: BH0 Prep Type: Solubl				
	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	689	F1	253	894.1	F1	mg/Kg		81	90 - 110			
					• •	mg/ng		01	30 - 110			
Lab Sample ID: 890-5496- Matrix: Solid Analysis Batch: 65494	1 MSD					ing/ixg			ient Samı Prep Ty	•		
Matrix: Solid		Sample	Spike	MSD		ing/itg			ient Sam	•		
Matrix: Solid	Sample	Sample Qualifier	Spike Added	-		Unit	D		ient Samı Prep Ty	•	oluble	

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11/10/2023 (Rev. 1)

Job ID: 890-5496-1 SDG: 03C1558250
QC Association Summary

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

GC VOA

Prep Batch: 65373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5496-1	BH01	Total/NA	Solid	5035	
890-5496-2	BH01A	Total/NA	Solid	5035	
890-5496-3	BH02	Total/NA	Solid	5035	
890-5496-4	BH02A	Total/NA	Solid	5035	
890-5496-5	BH03	Total/NA	Solid	5035	
890-5496-6	SS06	Total/NA	Solid	5035	
890-5496-7	SS07	Total/NA	Solid	5035	
MB 880-65373/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65373/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65373/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5496-1 MS	BH01	Total/NA	Solid	5035	
890-5496-1 MSD	BH01	Total/NA	Solid	5035	

Prep Batch: 65488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65488/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 65513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5496-1	BH01	Total/NA	Solid	8021B	65373
890-5496-2	BH01A	Total/NA	Solid	8021B	65373
890-5496-3	BH02	Total/NA	Solid	8021B	65373
890-5496-4	BH02A	Total/NA	Solid	8021B	65373
890-5496-5	BH03	Total/NA	Solid	8021B	65373
890-5496-6	SS06	Total/NA	Solid	8021B	65373
890-5496-7	SS07	Total/NA	Solid	8021B	65373
MB 880-65373/5-A	Method Blank	Total/NA	Solid	8021B	65373
MB 880-65488/5-A	Method Blank	Total/NA	Solid	8021B	65488
LCS 880-65373/1-A	Lab Control Sample	Total/NA	Solid	8021B	65373
LCSD 880-65373/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65373
890-5496-1 MS	BH01	Total/NA	Solid	8021B	65373
890-5496-1 MSD	BH01	Total/NA	Solid	8021B	65373

Analysis Batch: 65649

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5496-1	BH01	Total/NA	Solid	Total BTEX	
890-5496-2	BH01A	Total/NA	Solid	Total BTEX	
890-5496-3	BH02	Total/NA	Solid	Total BTEX	
890-5496-4	BH02A	Total/NA	Solid	Total BTEX	
890-5496-5	BH03	Total/NA	Solid	Total BTEX	
890-5496-6	SS06	Total/NA	Solid	Total BTEX	
890-5496-7	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 65394

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5496-1	BH01	Total/NA	Solid	8015NM Prep	
890-5496-2	BH01A	Total/NA	Solid	8015NM Prep	
890-5496-3	BH02	Total/NA	Solid	8015NM Prep	
890-5496-4	BH02A	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

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Job ID: 890-5496-1 SDG: 03C1558250

QC Association Summary

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

GC Semi VOA (Continued)

Prep Batch: 65394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5496-5	BH03	Total/NA	Solid	8015NM Prep	
MB 880-65394/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65394/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65394/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34703-A-41-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34703-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
Prep Batch: 65395					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5496-6	SS06	Total/NA	Solid	8015NM Prep	
800-5406-7	SS07	Total/NA	Solid	8015NM Pren	

				•
890-5496-7	SS07	Total/NA	Solid	8015NM Prep
MB 880-65395/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-65395/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-65395/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep
890-5496-6 MS	SS06	Total/NA	Solid	8015NM Prep
890-5496-6 MSD	SS06	Total/NA	Solid	8015NM Prep

Analysis Batch: 65434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5496-6	SS06	Total/NA	Solid	8015B NM	65395
890-5496-7	SS07	Total/NA	Solid	8015B NM	65395
MB 880-65395/1-A	Method Blank	Total/NA	Solid	8015B NM	65395
LCS 880-65395/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65395
LCSD 880-65395/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65395
890-5496-6 MS	SS06	Total/NA	Solid	8015B NM	65395
890-5496-6 MSD	SS06	Total/NA	Solid	8015B NM	65395

Analysis Batch: 65440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5496-1	BH01	Total/NA	Solid	8015B NM	65394
890-5496-2	BH01A	Total/NA	Solid	8015B NM	65394
890-5496-3	BH02	Total/NA	Solid	8015B NM	65394
890-5496-4	BH02A	Total/NA	Solid	8015B NM	65394
890-5496-5	BH03	Total/NA	Solid	8015B NM	65394
MB 880-65394/1-A	Method Blank	Total/NA	Solid	8015B NM	65394
LCS 880-65394/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65394
LCSD 880-65394/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65394
880-34703-A-41-C MS	Matrix Spike	Total/NA	Solid	8015B NM	65394
880-34703-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	65394

Analysis Batch: 65538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5496-1	BH01	Total/NA	Solid	8015 NM	
890-5496-2	BH01A	Total/NA	Solid	8015 NM	
890-5496-3	BH02	Total/NA	Solid	8015 NM	
890-5496-4	BH02A	Total/NA	Solid	8015 NM	
890-5496-5	BH03	Total/NA	Solid	8015 NM	
890-5496-6	SS06	Total/NA	Solid	8015 NM	
890-5496-7	SS07	Total/NA	Solid	8015 NM	

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Job ID: 890-5496-1 SDG: 03C1558250

QC Association Summary

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

HPLC/IC

Leach Batch: 65479

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5496-1	BH01	Soluble	Solid	DI Leach	
890-5496-2	BH01A	Soluble	Solid	DI Leach	
890-5496-3	BH02	Soluble	Solid	DI Leach	
890-5496-4	BH02A	Soluble	Solid	DI Leach	
890-5496-5	BH03	Soluble	Solid	DI Leach	
890-5496-6	SS06	Soluble	Solid	DI Leach	
890-5496-7	SS07	Soluble	Solid	DI Leach	
MB 880-65479/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65479/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65479/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5496-1 MS	BH01	Soluble	Solid	DI Leach	
890-5496-1 MSD	BH01	Soluble	Solid	DI Leach	

Analysis Batch: 65494

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5496-1	BH01	Soluble	Solid	300.0	65479
890-5496-2	BH01A	Soluble	Solid	300.0	65479
890-5496-3	BH02	Soluble	Solid	300.0	65479
890-5496-4	BH02A	Soluble	Solid	300.0	65479
890-5496-5	BH03	Soluble	Solid	300.0	65479
890-5496-6	SS06	Soluble	Solid	300.0	65479
890-5496-7	SS07	Soluble	Solid	300.0	65479
MB 880-65479/1-A	Method Blank	Soluble	Solid	300.0	65479
LCS 880-65479/2-A	Lab Control Sample	Soluble	Solid	300.0	65479
LCSD 880-65479/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65479
890-5496-1 MS	BH01	Soluble	Solid	300.0	65479
890-5496-1 MSD	BH01	Soluble	Solid	300.0	65479

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Job ID: 890-5496-1 SDG: 03C1558250

11/10/2023 (Rev. 1)

Lab Chronicle

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Client Sample ID: BH01 Date Collected: 10/19/23 09:15 Date Received: 10/19/23 15:34

	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	65373	10/23/23 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65513	10/25/23 22:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65649	10/25/23 22:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			65538	10/24/23 17:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	65394	10/23/23 16:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65440	10/24/23 17:34	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65479	10/24/23 12:55	SMC	EET MID
Soluble	Analysis	300.0		1			65494	10/24/23 20:55	СН	EET MID

Client Sample ID: BH01A Date Collected: 10/19/23 11:15 Date Received: 10/19/23 15:34

Date Received: 10/19/23 15:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	65373	10/23/23 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65513	10/25/23 23:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65649	10/25/23 23:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			65538	10/24/23 17:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65394	10/23/23 16:06	ТКС	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65440	10/24/23 17:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65479	10/24/23 12:55	SMC	EET MID
Soluble	Analysis	300.0		1			65494	10/24/23 21:15	СН	EET MID

Client Sample ID: BH02 Date Collected: 10/19/23 09:40 Date Received: 10/19/23 15:34

	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	65373	10/23/23 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65513	10/25/23 23:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65649	10/25/23 23:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			65538	10/24/23 18:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	65394	10/23/23 16:06	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65440	10/24/23 18:18	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65479	10/24/23 12:55	SMC	EET MID
Soluble	Analysis	300.0		1			65494	10/24/23 21:22	СН	EET MID

Client Sample ID: BH02A Date Collected: 10/19/23 11:30 Date Received: 10/19/23 15:34

	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	65373	10/23/23 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65513	10/25/23 23:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65649	10/25/23 23:54	SM	EET MID

Eurofins Carlsbad

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Job ID: 890-5496-1 SDG: 03C1558250

Lab Sample ID: 890-5496-1

Matrix: Solid

Lab Sample ID: 890-5496-2 Matrix: Solid

Lab Sample ID: 890-5496-3

Lab Sample ID: 890-5496-4 Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Client Sample ID: BH02A Date Collected: 10/19/23 11:30 Date Received: 10/19/23 15:34

	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			65538	10/24/23 18:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	65394	10/23/23 16:06	ТКС	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65440	10/24/23 18:40	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65479	10/24/23 12:55	SMC	EET MID
Soluble	Analysis	300.0		1			65494	10/24/23 21:42	СН	EET MID

Client Sample ID: BH03 Date Collected: 10/19/23 10:05 Date Received: 10/19/23 15:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	65373	10/23/23 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65513	10/26/23 00:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65649	10/26/23 00:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			65538	10/24/23 19:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	65394	10/23/23 16:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65440	10/24/23 19:01	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	65479	10/24/23 12:55	SMC	EET MID
Soluble	Analysis	300.0		1			65494	10/24/23 21:48	СН	EET MID

Client Sample ID: SS06

Date Collected: 10/19/23 10:30 Date Received: 10/19/23 15:34

	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	65373	10/23/23 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65513	10/26/23 00:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65649	10/26/23 00:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			65538	10/24/23 20:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	65395	10/23/23 16:10	ТКС	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65434	10/24/23 20:23	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65479	10/24/23 12:55	SMC	EET MID
Soluble	Analysis	300.0		1			65494	10/24/23 21:55	CH	EET MID

Client Sample ID: SS07 Date Collected: 10/19/23 10:35 Date Received: 10/19/23 15:34

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	65373	10/23/23 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65513	10/26/23 00:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65649	10/26/23 00:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			65538	10/24/23 21:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	65395	10/23/23 16:10	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65434	10/24/23 21:26	SM	EET MID

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Job ID: 890-5496-1 SDG: 03C1558250

Lab Sample ID: 890-5496-4

Lab Sample ID: 890-5496-5

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-5496-7

Lab Sample ID: 890-5496-6

Lab Chronicle

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Client Sample ID: SS07 Date Collected: 10/19/23 10:35 Date Received: 10/19/23 15:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	Ę
Soluble	Leach	DI Leach			5.04 g	50 mL	65479	10/24/23 12:55	SMC	EET MID	-
Soluble	Analysis	300.0		1			65494	10/24/23 22:02	СН	EET MID	

Laboratory References:

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

Job ID: 890-5496-1 SDG: 03C1558250

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Lab Sample ID: 890-5496-7 Matrix: Solid

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Laboratory: Eurofins Midland

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

Authority	Progran	า	Identification Number	Expiration Date
Texas	NELAP		T104704400-23-26	06-30-24
for which the agency	does not offer certification.		ot certified by the governing authori	ty. This list may include analyte
0,		but the laboratory is n Matrix	ot certified by the governing authori Analyte	ty. This list may include analyte
for which the agency	does not offer certification.		, , , , ,	ty. This list may include analyte

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Job ID: 890-5496-1

SDG: 03C1558250

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H Job ID: 890-5496-1 SDG: 03C1558250

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: PLU 23 Dog Town Draw 154H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Death	
890-5496-1	BH01	Solid	<u>10/19/23 09:15</u>		Depth 1	
890-5496-2	BH01A	Solid	10/19/23 11:15			
890-5496-3	BH01X BH02	Solid				
890-5496-4	BH02A	Solid	10/19/23 11:30			5
890-5496-5	BH03	Solid	10/19/23 10:05			
890-5496-6	SS06	Solid	10/19/23 10:30			
890-5496-7	SS07	Solid		10/19/23 15:34		
						8
						9
						12
						13

Job ID: 890-5496-1 SDG: 03C1558250

Marine Testing Project Manage: Ben Belli Convert Testing Bit to (I affersa) Company Name: Fisculum Bit to (I affersa) Bit to (I affersa) Company Name: Fisculum Bit to (I affersa) Bit to (I affersa) Company Name: Fisculum Bit to (I affersa) Bit to (I affersa) Company Name: Company Name: Company Name: Company Name: Company Name: Project Name: Company Name: Company Name: Company Name: Company Name: Company Name: Project Name: Company Name: Company Name: Company Name: Company Name: Company Name: Company Name: Project Name: Company Name: Company Name: Company Name: Company Name: Company Name: Company Name: Project Name: Company Name: <t< th=""><th>Image: Find on the find on the set of the set</th><th>AWY K</th><th>Relinquished by: (Signature) Received</th><th></th><th>otice: Signature of this document and relinquishment of samples constit 1 service. Eurofins Xenco will be liable only for the cost of samples and s 1 Eurofins Xenco A minimum charge of \$5500 will be applied to each or</th><th>Metal(s) to be analyzed</th><th>Tattal 200 7/ 6010 200 8/ 6020. 880</th><th></th><th></th><th>5507</th><th>305</th><th>2403</th><th>http://</th><th>13Ho2</th><th>A</th><th>BHO1 5 10/123</th><th>Sample Identification Matrix Sampled</th><th>Total Containers: Corrected Temperature:</th><th>NO NIA</th><th>Cooler Custody Seals: Yes No N/A Correction Factor:</th><th>Samples Received Intact: Vee No Thermometer ID:</th><th>SAMPLE RECEIPT Jempelank: (Yes)No</th><th></th><th>Sampler's Name: Connor Whitman</th><th></th><th>Project Number: 03C1558250</th><th>Project Name: PLU 23 Dog Town Draw 154H</th><th></th><th>City, State ZIP: Carlsbad, NM 88220</th><th>Address: 3122 National Parks Hwy</th><th>Company Name: Ensolum</th><th>Project Manager: Ben Belill</th><th></th><th>Environment Testing</th></t<>	Image: Find on the find on the set of the set	AWY K	Relinquished by: (Signature) Received		otice: Signature of this document and relinquishment of samples constit 1 service. Eurofins Xenco will be liable only for the cost of samples and s 1 Eurofins Xenco A minimum charge of \$5500 will be applied to each or	Metal(s) to be analyzed	Tattal 200 7/ 6010 200 8/ 6020. 880			5507	305	2403	http://	13Ho2	A	BHO1 5 10/123	Sample Identification Matrix Sampled	Total Containers: Corrected Temperature:	NO NIA	Cooler Custody Seals: Yes No N/A Correction Factor:	Samples Received Intact: Vee No Thermometer ID:	SAMPLE RECEIPT Jempelank: (Yes)No		Sampler's Name: Connor Whitman		Project Number: 03C1558250	Project Name: PLU 23 Dog Town Draw 154H		City, State ZIP: Carlsbad, NM 88220	Address: 3122 National Parks Hwy	Company Name: Ensolum	Project Manager: Ben Belill		Environment Testing
Midland, TX (422) 704-5440. San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550. Cansbad, NM (575) 988-3199 J104 E. Green St ZIP: Cansbad, NM 88220 Incomplexity Cansbad, NM 88220 AMALYSIS REG Code Parameters Cont	SIS REQ	AUNY	t by: (Signature)		utes a valid purchase order shall not assume any respor	LP / SPLP	13PPM			5' 5601		1005 1				1 516	Depth	nperature:	1			Yes	the lab, if received by 4:	TAT starts the day receiv	Due Date:		Turn Around	Email: Garrett.C	City, State	Address:	Company	Bill to: (if c		
Antonio, TX (210) 509-3334 bbock, TX (806) 794-1296 (sbad, NM (575) 988-3199 ANALYSIS REC ANALYSIS REC ANALYSIS REC ANALYSIS REC Cd Ca Cr Co Cu Fe Pb I Cd Cr Co Cu Pb Mn Mo Cd Cr Co Cu Pb Mn Mo Antonia analyzed. These terms to Antonio, the alient if such losses are Xenco, but not analyzed. These terms to Antonio analyzed. The Antonio analyzed.	SIS REO Chain of Chain of Chain of			- Data/Tima	from client company to Eurofins Xe nsibility for any losses or expenses i each sample submitted to Eurofins	8RCRA Sb As Ba E	11 AI Sb As Ba Be	JAMARA H								G	Cont CHLOI TPH (8	015))		arai	mete	L	ved by			2	Green@ExxonMobil.com		3104 E. Green S			Hobbs, NM (575) 392-7550, Car	Midland, TX (432) 704-5440, San
	Work Ord	4		Delinquished hv. (Signat	nco, its affiliates and subcontractors. It incurred by the client if such losses are v Xenco, but not analyzed. These terms w	Cd Cr Co Cu Pb Mn	Cd Ca Cr Co Cu Fe																				ANALYSIS REC		8220	St			Isbad, NM (575) 988-3199	Antonio, TX (210) 509-3334

Zoho Sign Document ID: 316041F4-R IR9JITD3UOCSPLMGI765ZSWUDLCCJHF7F9GN7SCHG Received by OCD: 11/22/2023 11:46:43 AM

Released to Imaging: 2/19/2024 8:40:28 AM

Job Number: 890-5496-1 SDG Number: 03C1558250

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5496 List Number: 1 Creator: Bruns, Shannon

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

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Job Number: 890-5496-1 SDG Number: 03C1558250

List Source: Eurofins Midland

List Creation: 10/23/23 09:18 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5496 List Number: 2 Creator: Rodriguez, Leticia

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

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

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APPENDIX E

NMOCD Notifications

From:	Wells, Shelly, EMNRD
To:	Collins, Melanie; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Cc:	<u>Green, Garrett J; Ben Belill; Tacoma Morrissey; Lambert, Tommee L; DelawareSpills /SM</u>
Subject:	RE: [EXTERNAL] XTO - Sampling Notification (Week of 10/16/23 - 10/20/23)
Date:	Thursday, October 12, 2023 4:26:05 PM
Attachments:	image001.png

Some people who received this message don't often get email from shelly.wells@emnrd.nm.gov. <u>Learn why this is</u> <u>important</u>

[**EXTERNAL EMAIL**]

Hi Melanie,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. When reporting sampling at multiple locations it is required to provide the anticipated start time for each location. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520<u>|Shelly.Wells@emnrd.nm.gov</u> http://www.emnrd.state.nm.us/OCD/

From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Thursday, October 12, 2023 2:14 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Green, Garrett J <garrett.green@exxonmobil.com>; bbelill@ensolum.com; Tacoma Morrissey
<tmorrissey@ensolum.com>; Lambert, Tommee L <tommee.l.lambert@exxonmobil.com>;
DelawareSpills /SM <DelawareSpills@exxonmobil.com>
Subject: [EXTERNAL] XTO - Sampling Notification (Week of 10/16/23 - 10/20/23)

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

All,

XTO plans to complete final sampling activities at the sites listed below for the week of October 16,

2023.

Monday – October 16, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229
- PLU 18 TWR Sat Battery / nAPP2230551957

Tuesday - October 17, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229

Wednesday - October 18, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229

Thursday - October 19, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229
- PLU 23 Dog Town Draw 154H / nAPP2316446382

Friday - October 20, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229

Thank you,

Melaníe Collíns



Environmental Technician melanie.collins@exxonmobil.com 432-556-3756

From:	Hamlet, Robert, EMNRD
To:	Collins, Melanie Suzanne
Cc:	<u>Ashley Giovengo; Ben Belill; DelawareSpills /SM; Green, Garrett J; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD</u>
Subject:	(Extension Approval) - XTO - PLU 23 Dog Town Draw 154H - Incident Number nAPP2316446382
Date:	Friday, August 25, 2023 9:29:11 AM
Attachments:	image003.png

Some people who received this message don't often get email from robert.hamlet@emnrd.nm.gov. Learn why this is important

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2316446382

Melanie,

Your request for an extension to **November 29th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, August 24, 2023 3:26 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] XTO - Extension Request - PLU 23 Dog Town Draw 154H - Incident Number nAPP2316446382

From: Collins, Melanie <<u>melanie.collins@exxonmobil.com</u>
Sent: Thursday, August 24, 2023 2:55 PM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>
Cc: Ashley Giovengo <<u>agiovengo@ensolum.com</u>; belawareSpills /SM

<DelawareSpills@exxonmobil.com>; Green, Garrett J <garrett.green@exxonmobil.com>
Subject: [EXTERNAL] XTO - Extension Request - PLU 23 Dog Town Draw 154H - Incident Number nAPP2316446382

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

All,

XTO is requesting an extension of the current deadline of August 31, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the PLU 23 Dog Town Draw 154H (Incident Number nAPP2316446382). The release occurred on June 6, 2023, as a result of a pump swap during frac operations. Approximately 29 barrels (bbls) of produced water were released inside the equipment containment and onto the caliche pad; 10 bbls of produced water were recovered. Due to the presence of frac equipment and subsequent flowback operations, XTO has been unable to conduct delineation sampling within and in the immediate area surrounding the release. In order to provide time to complete on-site drilling operations, then complete delineation soil sampling, conduct excavation and confirmation sampling activities, and to submit a remediation work plan or closure report, XTO requests a 90-day extension of this deadline until November 29, 2023.

Thank you,





Environmental Technician melanie.collins@exxonmobil.com 432-556-3756

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

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: 0	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	287958
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	In future closure requests, if intending to use delineation samples for closure a variance request for sampling must be approved and sampling notification submitted via C-141N.	2/19/2024
amaxwell	In future closure requests, when delineation results meet Table I closure criteria, to meet confirmation closure requirements, collect 5-point confirmation samples representing no more than 200 square feet.	2/19/2024
amaxwell	Remediation Closure approved. All areas not reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as practical. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed.	2/19/2024
amaxwell	When submitting the reclamation report, include an Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	2/19/2024

Action 287958