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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NAPP2310050120
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy				OGRID 4	5380	
Contact Name				-	Contact Telephone 575-200-0729	
Contact email garrett.green@exxonmobil.com			# (assigned by OCD)			
		3104 E. Greene Str		w Mexico, 88220		
				.,		
			Location	of Release So	ource	
Latitude 32.23	3536			Longitude	-103.91457	
			(NAD 83 in dec	imal degrees to 5 decim		
Site Name Po	oker Lake l	 Unit 224		Site Type	Production Well	
Date Release D				API# (if app		
	~					
Unit Letter	Section	Township	Range	Coun	<u> </u>	
Н	07	24S	30E	Eddy	dy	
Surface Owner:	☐ State	🗷 Federal 🗌 Tr	ibal 🔲 Private (A	Name:)	
			NT 4		D. I	
			Nature and	l Volume of F	Release	
	Material			calculations or specific	c justification for the volumes provided below)	
➤ Crude Oil		Volume Release	2.00		Volume Recovered (bbls) 0.11	
roduced W	Vater	Volume Release	d (bbls) 12.80		Volume Recovered (bbls) 0.65	
			ion of total dissolv water >10,000 mg/	` ,	Yes No	
Condensate Volume Released (bbls)			Volume Recovered (bbls)			
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weight Recovered (provide units)			
Cause of Relea	ise Corrosi	on caused a flowli	ne to release fluids	s to ground. All fre	ree fluids were recovered. A third-party contractor has	
	been ret	tained for remedia	tion purposes.			

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Page 2 Oil Conservation Division

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Incident ID	NAPP2310050120	
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Application ID		

Was this a major	If YES, for what reason(s) does the respon	ısible paı	rty consider this a major release?
release as defined by	N/A		
19.15.29.7(A) NMAC?			
☐ Yes 🗷 No			
If YES, was immediate n	otice given to the OCD? By whom? To wh	nom? Wl	hen and by what means (phone, email, etc)?
N/A			
	Initial Ro	espons	se
The responsible	party must undertake the following actions immediatel	y unless the	ey could create a safety hazard that would result in injury
The government of the male	ongo hag haan stampad		
	ease has been stopped.	داده میداند	
	as been secured to protect human health and		
	ave been contained via the use of berms or d		
	ecoverable materials have been removed and		ed appropriately.
	d above have <u>not</u> been undertaken, explain v	why:	
NA			
			on immediately after discovery of a release. If remediation
			ave been successfully completed or if the release occurred ach all information needed for closure evaluation.
			knowledge and understand that pursuant to OCD rules and
			and perform corrective actions for releases which may endanger
			not relieve the operator of liability should their operations have ndwater, surface water, human health or the environment. In
			ility for compliance with any other federal, state, or local laws
and/or regulations.			
Printed Name: Garrett G	reen	Title:	SSHE Coordinator
Signature:	A Sur	Date:	4/10/2023
email: garrett.green@exx	konmobil.com		575-200-0729
eman.		i elepi.	ione
OCD Only			
Received by: Joce	lyn Harimon	Date:	04/10/2023
	.,		

Location:	PLU 224	
Spill Date:	4/4/2023	
	Area 1	
Approximate A	rea = 1190.	00 sq. ft.
Average Satura	tion (or depth) of spill = 8.	00 inches
Average Porosi	ty Factor = 0.	10
	VOLUME OF LEAK	
Total Crude Oil	= 2.	08 bbls
Total Produced	Water = 12.	80 bbls
	TOTAL VOLUME OF LEAK	
Total Crude Oi	= 2.	08 bbls
Total Produced Water = 12.8		80 bbls
	TOTAL VOLUME RECOVERED	
Total Crude Oi	0.	11 bbls
Total Produced	l Water = 0.	65 bbls

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

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

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

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

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

CONDITIONS

Action 205781

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	205781
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/10/2023

	Page 5 of 14	4
Incident ID	NAPP2310050120	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler 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 🗓 No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X 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 X No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X 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 X No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗓 No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X 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?	Yes X No	
Did the release impact areas not on an exploration, development, production, or storage site?	X Yes No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		

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

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- x Field data
- x Data table of soil contaminant concentration data
- x Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X Boring or excavation logs
- X Photographs including date and GIS information
- 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.

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Incident ID	NAPP2310050120
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I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name: Garrett Green	Title: SSHE Coordinator
Signature:garrett.green@exxonmobil.com	Date: 8/31/2023 Telephone: 575-200-0729
OCD Only Received by: Shelly Wells	Date: 8/31/2023

rt ID NAPP2310050120

Incident ID	NAPP2310050120
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following is	tems must be included in the closure report.
X A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Note That 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 ODC	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 certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Garrett Green	Title:SSHE Coordinator
a: d # f	Date: 8/31/2023
Signature:garrett.green@exxonmobil.com email:	Telephone: 575-200-0729
OCD Only	
Received by: _Shelly Wells	Date: <u>8/31/2023</u>
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	



August 31, 2023

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

Re: Closure Request Poker Lake Unit 224

Incident Number NAPP2310050120

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Closure Request* to document remedial actions completed at the Poker Lake Unit 224 (Site). The purpose of the remedial activities was to address impacted soil following a release of crude oil and produced water. The following *Closure Request* describes assessment activities, excavation of impacted soil, and confirmation sampling result and respectfully requests no further action for Incident Number NAPP2310050120.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit H, Section 7, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.23536°, -103.91457°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management.

On April 4, 2023, corrosion of a flow line caused a release of 2.08 barrels (bbls) of crude oil and 12.8 bbls of produced water to the well pad. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 0.11 bbls of crude oil and 0.65 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Release Notification Form C-141 (Form C-141) on April 10, 2023. The release was assigned Incident Number NAPP2310050120.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) 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 with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-02108, located less than ½-mile south of the Site. The groundwater well has a reported depth to groundwater of 186 feet bgs and total depth of 200 feet bgs. Additionally, NMOSE well C-4526 was drilled to a total depth of 105 feet bgs

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 N Marienfeld Street #400 | Midland, TX 79701 | ensolum.com Poker Lake Unit 224 Closure Request XTO Energy, Inc.



north of the Site and was determined to be dry, which corroborates the reasonably estimated depth to water beneath the Site. 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 to the Site 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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On June 6, 2023, Ensolum was onsite to assess the release extent based on information provided on the Form C-141 and visual observations. Soil samples SS01 through SS03 were collected within the release extent at approximately 0.5 feet bgs. Soil from the surface locations was field screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively.

Ensolum returned to the Site on June 23, 2023, to advance a pothole (PH03), in the vicinity of soil sample SS03, to a total depth of 5 feet bgs. Two soil samples were collected from pothole PH03 at approximately 3 feet and 5 feet bgs with a backhoe for laboratory analysis. Field screening results and observations for the pothole were logged on lithologic/soil sampling log, which is included in Appendix B. The delineation soil sample locations were mapped utilizing a hand-held 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 in Appendix C.

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 the delineation soil samples collected from soil samples SS01 through SS03 and pothole PH03 at 3 feet bgs indicated TPH concentrations exceeded the Closure Criteria. The concentrations identified in the terminal depth sample for pothole PH03, collected at 5 feet bgs, were

Poker Lake Unit 224 Closure Request XTO Energy, Inc.



compliant with the Closure Criteria and successfully defined the vertical extent of impacted soil. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

EXCAVATION ACTIVITIES

Based on the laboratory analytical results from soil samples within the release extent, excavation activities appeared warranted to address TPH impacts to soil. As such, Ensolum was onsite between June 22 and June 27, 2023 to excavate TPH-impacted soil. Excavation activities were completed utilizing a hydrovac, a backhoe, and transport vehicles. The excavation was directed based on previous soil sample analytical data and field screening for VOCs and chloride. Photographic documentation was completed during excavation activities and a photographic log is included in Appendix C.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS07 were collected from the floor of the excavation at a depth of 4 feet bgs. Composite soil samples SW01 through SW07 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for excavation floor samples FS01 and FS02 indicated TPH-GRO and TPH-DRO combined concentrations exceeded the Closure Criteria. Laboratory analytical results for excavation sidewall soil samples SW01 and SW03 indicated the TPH and chloride concentrations, respectively, exceeded the reclamation requirement. All other confirmation floor and sidewall soil samples indicated COC concentrations were compliant with the Closure Criteria and reclamation requirement.

Based on laboratory analytical results for excavation floor soil samples FS01 and FS02 and excavation sidewall soil samples SW01 and SW02 were further excavated and resampled. The floor was excavated in the vicinity of soil samples FS01 and FS02 to a total depth of 5 feet bgs. Laboratory analytical results for the resampled excavation floor and sidewall samples indicated all COCs were compliant with the Closure Criteria and/or reclamation requirement. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix D.

The excavation area measured approximately 1,394 square feet. A total of approximately 258 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Carlsbad, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the April 2023 release of crude oil and produced water. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. XTO will backfill the excavation with topsoil material purchased locally and recontour the Site to match preexisting site conditions. The area will be seeded this Fall with a BLM-approved seed mixture. XTO believes remedial actions completed at the Site have been protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2310050120.

Poker Lake Unit 224 Closure Request XTO Energy, Inc.



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

Sincerely, **Ensolum, LLC**

Daniel R. Moir, PG Senior Managing Geologist

cc: Garrett Green, XTO
Shelby Pennington, XTO
Bureau of Land Management

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

ashley L. ager

Appendices:

Figure 1 Site Location Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation 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



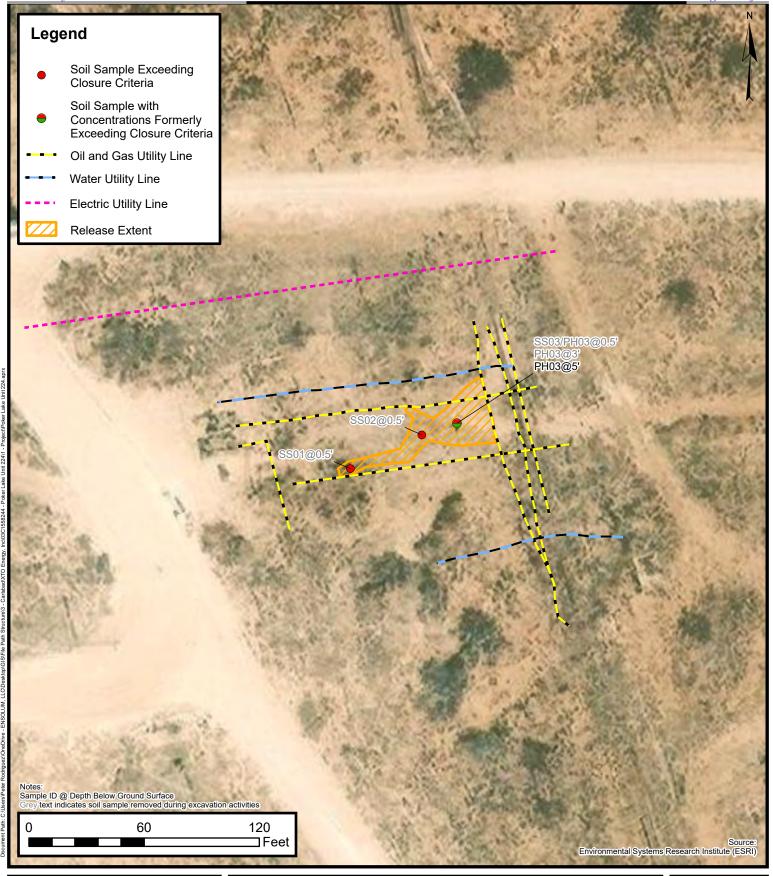
Figures



XTO Energy, Inc Poker Lake Unit 224 Incident Number: NAPP2310050120

> Unit H, Section 7, T24S, R30E Eddy County,New Mexico

FIGURE





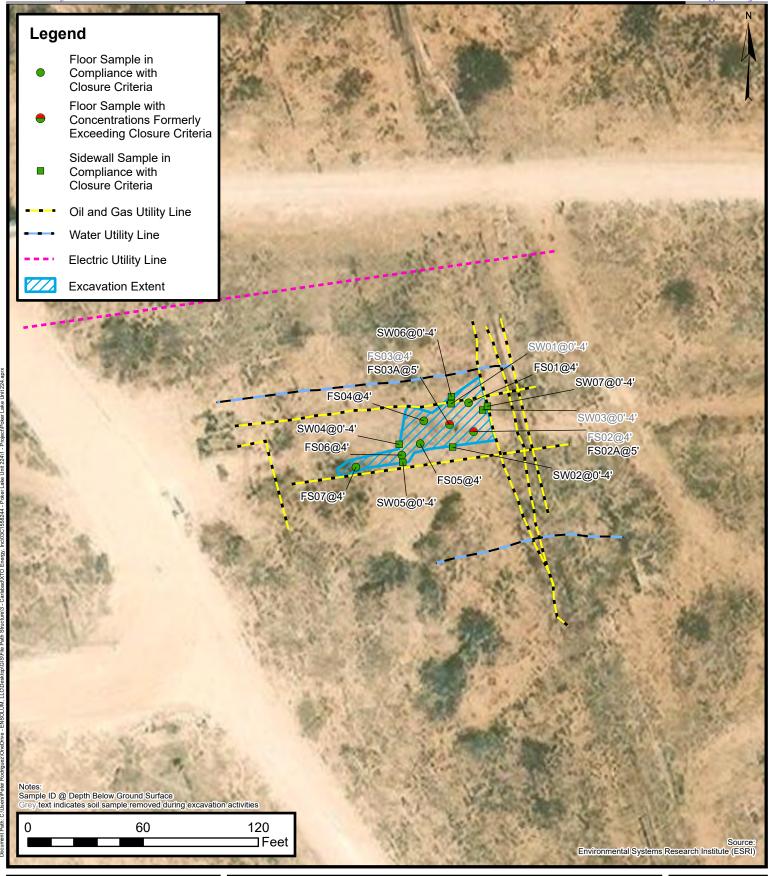
Delineation Soil Sample Locations

XTO Energy, Inc Poker Lake Unit 224

Incident Number: NAPP2310050120

Unit H, Section 7, T24S, R30E Eddy County,New Mexico FIGURE

2





Excavation Soil Sample Locations

XTO Energy, Inc Poker Lake Unit 224

Incident Number: NAPP2310050120

Unit H, Section 7, T24S, R30E Eddy County, New Mexico FIGURE 3



Table

Received by OCD: 8/31/2023 11:59:04 AM



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Poker Lake Unit 224 XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Nagyura Cuitania (, 5 5/		, 5 5/	, , ,	, 5 5	, 5 5/	, 5 5/	, 5 5/
NMOCD Table I C	losure Criteria (NIMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Deliı	neation Soil Sa	mples				
SS01	06/06/2023	0.5	<0.00200	<0.00399	<50.0	2,200	339	2,200	2,540	8,530
SS02	06/06/2023	0.5	<0.0495	12.4	594	9,040	1,270	9,630	10,900	10,000
SS03	06/06/2023	0.5	<0.0504	10.5	738	10,800	1,550	11,540	13,100	10,700
PH03	06/23/2023	3	0.183	59.4	2,930	7,160	<249	10,090	10,100	5,940
PH03	06/23/2023	5	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	7,380
				Excavation	Confirmation	Soil Samples				
FS01	06/27/2023	4	<0.00200	<0.00400	<50.2	213	<50.2	213	213	3,360
FS02	06/27/2023	4	<0.00202	0.0186	<50.0	2,400	<50.0	2,400	2,400	6,050
FS02A	07/19/2023	5	<0.00200	<0.00401	<49.6	265	<49.6	265	265	5,200
FS03	06/27/2023	4	<0.00200	0.00964	<50.1	1,210	<50.1	1,210	1,210	4,740
FS03A	07/19/2023	5	< 0.00199	<0.00398	<49.5	215	<49.5	215	215	1,500
FS04	06/27/2023	4	<0.00199	0.0119	<49.8	582	<49.8	582	582	1,690
FS05	06/27/2023	4	<0.00198	< 0.00396	<49.9	254	<49.9	254	254	2,770
FS06	06/27/2023	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	2,060
FS07	06/27/2023	4	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	108
SW01	06/27/2023	0-4	<0.00202	<0.00403	<49.9	65.4	<49.9	65.4	65.4	724
SW02	06/27/2023	0 - 4	<0.00198	0.0431	<50.0	<50.0	<50.0	<50.0	<50.0	295
SW03	06/27/2023	0-4	<0.00200	0.0381	<49.9	104	<49.9	104	104	457
SW04	06/27/2023	0 - 4	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	133
SW05	06/27/2023	0 - 4	<0.00198	<0.00396	<49.8	59.7	<49.8	59.7	59.7	285
SW06	07/19/2023	0 - 4	<0.00198	<0.00396	65.4	<50.4	<50.4	65.4	65.4	67.1
SW07	07/19/2023	0 - 4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	33.1

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 or

reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

Ensolum



APPENDIX A

Well Log Records



New Mexico Office of the State Engineer

Transaction Summary

DCL Declaration of a Water Right

Transaction Number: 199349 **Transaction Desc:** C 02108 **File Date:** 06/14/1984

Primary Status:DCLDeclaredSecondary Status:PRCProcessed

Person Assigned: ******

Applicant: M & M CATTLE CO. A PARTNERSHIP **Contact:** ELLEN MADERA MCDONALD

Events

DateTypeDescriptionCommentProcessed By06/14/1984APPApplication Received*********

06/14/1984 FTN Finalize non-published Trans.

03/08/2002 QAT Quality Assurance Completed ******

Water Right Information

WR File Nbr Acres Diversion Consumptive Purpose of Use

C 02108 0 3 STK 72-12-1 LIVESTOCK WATERING

**Point of Diversion

C 02108 602702 3566487*

An () after northing value indicates UTM location was derived from PLSS - see Help

**Place of Use

QQQQ

256 64 16 4 Sec Tws Rng Acres Diversion Consumptive Use Priority Status Other Loc Desc

0 3 STK DCL NO PLACE OF USE GIVEN.

Remarks

DOMESTIC AS AN ADDITIONAL USE

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/29/23 1:12 PM

TRANSACTION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng 3 08 24S 30E

 \mathbf{X}

602702 3566487*

Driller License:

Driller Company:

Depth Well:

Driller Name:

Casing Size:

UNKNOWN

Drill Start Date: Log File Date:

C 02108

Plug Date: **Drill Finish Date:** 12/31/1963

200 feet

Source:

PCW Rcv Date: Pump Type: 7.00

Pipe Discharge Size:

Estimated Yield: 16 GPM

Depth Water: 186 feet

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/29/23 1:12 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



NO	OSE POD NO. POD1 (M	•	.)		VELL TAG ID NO. /a	-		OSE FILE NO(3 C-4526	S).				
OCATI	WELL OWNE	٠,						PHONE (OPTIO	ONAL)				
GENERAL AND WELL LOCATION	WELL OWNE 6401 Holid							CITY Midland		STAT:	E 79707	ZIP	
LAND	WELL LOCATION I ATI		DE	GREES 32°	MINUTES 14'	SECON 42.1:		* ACCURACY	REQUIRED: ONE TENT	TH OF A	A SECOND		
ERA	(FROM GP	s)		103°	55'	6.20		DATUM REC	QUIRED: WGS 84				
1. GEN	DESCRIPTION NW NE Se		IG WELL LOCATION TO S R30E	STREET ADDRES	S AND COMMON	N LANDMA	rks – pls	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AV	/AILABLE		
	LICENSE NO. NAME OF LICENSED DRILLER NAME OF WELL DRILLING COMPANY												
	124	9		Jac	kie D. Atkins	•			Atkins Eng	ineerin	ng Associates, I	nc.	
	DRILLING ST 05/14/2		DRILLING ENDED 05/14/2021				LE DEPTH (FT) 105	DEPTH WATER FIRS		OUNTERED (FT) /a			
7	COMPLETED	WELL IS:	ARTESIAN	DRY HOLE	SHALLO	W (UNCO	NFINED)		STATIC WATER LEV		COMPLETED WE	LL (FT)	
10 I	DRILLING FL	LUID:	✓ AIR	MUD ADDITIVES – SPECIFY:				<u> </u>					
2. DRILLING & CASING INFORMATION	DRILLING METHOD: ROTARY			HAMMER CABLE TOOL OTHER - SPEC			R – SPECIFY:	: Hollow Stem Auger					
NFO	DEPTH (feet bgl)		BORE HOLE	CASING MATERIAL AND/OR		a. anya		CASING CASING WALI		CDIC WALL			
NG II	FROM TO		DIAM	GRADE (include each casing string, and			CON	ASING NECTION	INSIDE DIAM. THICKNESS			SLOT SIZE	
ASI			(inches)	note sections of screen) (add co				YPE ling diameter)	(inches)		(inches)	(inches)	
38	0	105	±6.5	Во	oring- HSA					ļ			
N.										<u> </u>			
2. D													
										_		-	
				1					<u> </u>	<u></u>		<u> </u>	
,	DEPTH ((feet bgl)	BORE HOLE	I .	ANNULAR SE						METHOD OF		
ANNULAR MATERIAL	FROM	то	DIAM. (inches)	GRAVI	EL PACK SIZE	-RANGE	BY INTE	RVAL	(cubic feet)		PLACEN	MENI	
W													
LAB													
	<u> </u>							_		_			
3. A.			_										
FOR	OSE INTER	NAL USF		-				WR-2	0 WELL RECORD	& LOC	(Version 06/3	0/17)	
	E NO.	7-4	526		POD NO		1	TRN	4 4	210	9		
LOC	CATION C	ادرد	7	US 300	- 1. UI	\overline{u}		WELL TAGE	D NO CONTRACTOR		PAGE	±:OF 2	

	DEPTH (1	eet bgl)	THICKNESS (feet)	INCLUDE WATE	TYPE OF MATERIAL I	OR FRAC	TURE ZONE	3	WAT BEAR	ING?	ESTIMATED YIELD FOR WATER- BEARING
	11011		` '	(attach sup	plemental sheets to fully (describe s	dl units)		(YES	NO)	ZONES (gpm)
	0	4	4	SAND, poorly	graded, fine-very grained,	Reddish-	brown, dry		Y	√N	
	4	12	8	CALICHE,	poorly-mod. consolidated,	tan-off w	hite, dry		Y	√ N	
	12	19	7	SAND, poorly grad	led, fine-very grained, som	e caliche	gravel, Tan ,dr	y	Y	√N	
	19	24	5	SAND, poorly graded,	fine-very grained, some ca	liche grav	el, Light- Brov	n, dry	Y	√N	
	24	72	48	SAND, poorly	graded, fine-very grained, l	Reddish B	rown, moist		Y	√N	
Į,	72	92	20	SAND, poorly grade	d, fine-very grained, some	silt, Redd	ish Brown, mo	ist	Y	√N	
4. HYDROGEOLOGIC LOG OF WELL	92	102	10	SILTY SAND, poo	rly graded, fine-very grain	ed, Reddi	sh Brown, moi	st	Y	√N	
OF	102	105	3	SILTY SAND, po	orly graded, fine-very grain	ned, Redd	ish Brown, dry	,	Y	√N	
,0G			* "			-			Y	N	
121									Y	N	
200									Y	N	
EO									Y	N	
ROC									Y	N	
1XD							···		Y	N	
4.1									Y	N	
									Y	N	
		······································					•		Y	N	
									Y	N	
									Y	N	
	. <u>-</u> .								Y	N	
							· •		Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING	STRATA:			TOTA	L ESTIN	ATED	
	PUM	, [] _{A1}	IR LIFT	BAILER OT	HER – SPECIFY:			WEL	L YIELD	(gpm):	0.00
N.	WELL TES	TEST:	RESULTS - ATT I TIME, END TI	ACH A COPY OF DAT ME, AND A TABLE SH	A COLLECTED DURING OWING DISCHARGE A	WELL IND DRA	TESTING, INC WDOWN OVI	LUDII ER THI	NG DISC E TESTIN	HARGE N IG PERIC	METHOD, DD.
VISION	MISCRITA	NEOLIS INE	ORMATION:								
ERV	MISCELLA	AEOOS IIVI	- Te		ls removed and the soil ce, then hydrated benton						
TEST; RIG SUPERV				ogs adapted from WSI		пи опр.	, moni ten iet	. 0010	w ground	. surrucc	to surrice.
RIG											
ST;											
5. TE					VIDED ONSITE SUPERV	ISION O	F WELL CON	STRUC	CTION O	THER TH	IAN LICENSEE:
4,	Shane Eldri	ige, Carme	lo Trevino, Car	neron Pruitt							
	THE UNDE	RSIGNED H	IEREBY CERTII	FIES THAT, TO THE B	EST OF HIS OR HER KN	OWLED	GE AND BEL	IEF, TI	IE FORE	GOING I	S A TRUE AND
RE	CORRECT	RECORD OF	F THE ABOVE I	DESCRIBED HOLE AN	D THAT HE OR SHE WI PLETION OF WELL DRI	LL FILE					
ATL			LDER WITHIN.	O DATS AT LER COM	LETION OF WELL DIG	DEMIC.					
SIGNATURE	Jack A	tkins		Jac	kie D. Atkins				06/09	9/2021	
6. S				-		_				DATE	
		SIGNAT	UKE OF DRILLE	ER / PRINT SIGNEE !	NAME					DATE	
_FOI	R OSE INTER	NAL USE					WR-20 WE	LL REC	CORD &	LOG (Ve	rsion 06/30/2017)
FIL	E NO.	C-	4526		POD NO.		TRN NO.	U	921	09	
LO	CATION		. ,			WELL	TAG ID NO.			•	PAGE 2 OF 2



APPENDIX B

Lithologic / Soil Sampling Log

								Sample Name: PH03	Date: 6/23/2023
	7		N	8	01	_ U	M	Site Name: PLU 224	
				3	U	_ 0		Incident Number: NAPP23100	50120
								Job Number: 03C1558244	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: CW	Method: backhoe
							Hole Diameter:	Total Depth: 5 ft bgs	
	Comments: Field screening conducted with HACH Chloride Test Strips and I performed with 1:4 dilution factor of soil to distilled water. No correction f								oectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions
					1	<u> </u>	SP		
					-	-	31		with silt, reddish-brown,
m	8,685	373	Υ		- - -	1	SP	moist, staining and odor SAA	present
m	6,820	2,083	Υ		- - -	_ 2	SP	SAA	
m	7,302	2,420	Υ	PH03	3' <u>-</u>	_ _ 3 _	SP	SAA	
m	7,421	419	Υ		- - -	4	SP	SAA	
m	9,424	290	N	PH03	5" <u> </u>	- - 5	SP	no odor or staining prese	ent
					- - -	- - - 6		TD - 5 feet bgs	
					- - -	7			
					- - -	- _ 8 -			
					- - -	- - 9			
					- - - -	_ _ 10			
					- - -	11			
					-	12			



APPENDIX C

Photographic Log



Photographic Log
XTO Energy, Inc
Poker Lake Unit 224
Incident Number NAPP2310050120





Photograph 1 Date: 6/6/2023 Description: Release point area, replaced flowline.

View: North

Photograph 2 Date: 6/6/2023

Description: Release extent area

View: Northeast





Photograph 3 Date: 6/26/2023 Description: Hydrovaccing impacts near subsurface

lines

Photograph 4 Date: 7/19/2023

Description: Final excavation extent

View: East



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 6/14/2023 3:20:29 PM

JOB DESCRIPTION

Poker Lake Unit 224 SDG NUMBER 03C1558244

JOB NUMBER

890-4788-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 6/14/2023 3:20:29 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 Client: Ensolum Laboratory Job ID: 890-4788-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

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Surrogate Summary	9
QC Sample Results	10
QC Association Summary	15
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Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receint Checklists	22

Definitions/Glossary

Job ID: 890-4788-1 Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Qualifiers

GC	VOA
Oua	ifior

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

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

Qualifier Description

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbicviation	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)

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

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

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Job ID: 890-4788-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Job ID: 890-4788-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4788-1

Receipt

The samples were received on 6/6/2023 4:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4788-1), SS02 (890-4788-2) and SS03 (890-4788-3).

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-55037 and analytical batch 880-55385 recovered outside control limits for the following analytes: Benzene and Toluene. These analytes were biased high in the LCSD however, they were acceptable in the LCS and only one is required by method; therefore, the data have been reported.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: SS02 (890-4788-2) and SS03 (890-4788-3). Elevated reporting limits (RLs) are provided.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS02 (890-4788-2) and SS03 (890-4788-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-55014 and analytical batch 880-55084 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS02 (890-4788-2), SS03 (890-4788-3), (MB 880-55014/1-A), (880-29167-A-22-C MS) and (880-29167-A-22-D MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Job ID: 890-4788-1

Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: SS01 Date Collected: 06/06/23 11:45

Date Received: 06/06/23 16:09 Sample Depth: 0.5'

Lab Sample ID: 890-4788-1

Matrix: Solid

5	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U *+	0.00200	mg/Kg		06/08/23 13:04	06/13/23 22:12	
Toluene	<0.00200	U *+	0.00200	mg/Kg		06/08/23 13:04	06/13/23 22:12	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/08/23 13:04	06/13/23 22:12	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/08/23 13:04	06/13/23 22:12	
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/08/23 13:04	06/13/23 22:12	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/08/23 13:04	06/13/23 22:12	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	94		70 - 130			06/08/23 13:04	06/13/23 22:12	
1,4-Difluorobenzene (Surr)	106		70 - 130			06/08/23 13:04	06/13/23 22:12	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/14/23 09:58	
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	2540		50.0	mg/Kg			06/12/23 14:43	
Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0	mg/Kg		06/08/23 09:17	06/10/23 04:33	
Diesel Range Organics (Over C10-C28)	2200		50.0	mg/Kg		06/08/23 09:17	06/10/23 04:33	
Oll Range Organics (Over C28-C36)	339		50.0	mg/Kg		06/08/23 09:17	06/10/23 04:33	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	106		70 - 130			06/08/23 09:17	06/10/23 04:33	
o-Terphenyl	117		70 - 130			06/08/23 09:17	06/10/23 04:33	
Method: EPA 300.0 - Anions, Io	n Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
	8530		50.2	mg/Kg				

Client Sample ID: SS02

Date Collected: 06/06/23 11:50 Date Received: 06/06/23 16:09

Sample Depth: 0.5'

Lab Sample ID: 890-4788-2

Matrix: Solid

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

method: 04040 6021B - Volatile Organic Compounds (OC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0495	U *+	0.0495	mg/Kg		06/08/23 13:04	06/13/23 22:32	25
Toluene	0.648	*+	0.0495	mg/Kg		06/08/23 13:04	06/13/23 22:32	25
Ethylbenzene	1.64		0.0495	mg/Kg		06/08/23 13:04	06/13/23 22:32	25
m-Xylene & p-Xylene	5.80		0.0990	mg/Kg		06/08/23 13:04	06/13/23 22:32	25
o-Xylene	4.28		0.0495	mg/Kg		06/08/23 13:04	06/13/23 22:32	25
Xylenes, Total	10.1		0.0990	mg/Kg		06/08/23 13:04	06/13/23 22:32	25

Eurofins Carlsbad

Job ID: 890-4788-1

Matrix: Solid

Lab Sample ID: 890-4788-2

Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: SS02

Date Collected: 06/06/23 11:50 Date Received: 06/06/23 16:09

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	06/08/23 13:04	06/13/23 22:32	25
1,4-Difluorobenzene (Surr)	70		70 - 130	06/08/23 13:04	06/13/23 22:32	25

Method: TAL SOP Total BTEX - Tot	al BTEX Calc	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	12.4		0.0990	mg/Kg			06/14/23 09:58	1

Method: SW846 8015 NM - Diesel Range	e Organ	ics (DRO) (G	iC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10900		249	mg/Kg			06/12/23 14:43	1

Method: SW846 8015B NM - D	iesel Range Orga	anics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	594	*_	249	mg/Kg		06/08/23 09:17	06/10/23 03:49	5
Diesel Range Organics (Over C10-C28)	9040		249	mg/Kg		06/08/23 09:17	06/10/23 03:49	5
Oll Range Organics (Over C28-C36)	1270		249	mg/Kg		06/08/23 09:17	06/10/23 03:49	5
Surragata	%/Bassyany	Qualifier	Limito			Branarad	Anglyzad	Dil Eo

Surrogate	%Recovery G	Qualifier	Limits	Prepared	Analyzea	DII Fac
1-Chlorooctane	127		70 - 130	06/08/23 09:17	06/10/23 03:49	5
o-Terphenyl	150 S	S1+	70 - 130	06/08/23 09:17	06/10/23 03:49	5
_						

Method: EPA 300.0 - Anions, Ion Ch	romatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10000	99.4	mg/Kg			06/09/23 13:22	20

Lab Sample ID: 890-4788-3 **Client Sample ID: SS03** Date Collected: 06/06/23 11:55 **Matrix: Solid**

Date Received: 06/06/23 16:09

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.0504	U *+	0.0504	mg/Kg		06/08/23 13:04	06/13/23 22:52	2
Toluene	1.10	*+	0.0504	mg/Kg		06/08/23 13:04	06/13/23 22:52	2
Ethylbenzene	1.58		0.0504	mg/Kg		06/08/23 13:04	06/13/23 22:52	2
m-Xylene & p-Xylene	5.43		0.101	mg/Kg		06/08/23 13:04	06/13/23 22:52	2
o-Xylene	2.37		0.0504	mg/Kg		06/08/23 13:04	06/13/23 22:52	2
Xylenes, Total	7.80		0.101	mg/Kg		06/08/23 13:04	06/13/23 22:52	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130			06/08/23 13:04	06/13/23 22:52	2
1,4-Difluorobenzene (Surr)	94		70 - 130			06/08/23 13:04	06/13/23 22:52	2

Analyte Result Qualifier Unit Dil Fac RL Prepared Analyzed **Total BTEX** 10.5 0.101 mg/Kg 06/14/23 09:58

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6/14/2023

Lab Sample ID: 890-4788-3

06/10/23 04:11

06/10/23 04:11

06/08/23 09:17

06/08/23 09:17

Client Sample Results

Client: Ensolum Job ID: 890-4788-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: SS03

Da Da

Sample Depth: 0.5'

1-Chlorooctane

o-Terphenyl

ate Collected: 06/06/23 11:55	Matrix: Solid
ate Received: 06/06/23 16:09	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier Dil Fac Analyte RL Unit D Prepared Analyzed 250 06/12/23 14:43 **Total TPH** 13100 mg/Kg

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	738	*_	250	mg/Kg		06/08/23 09:17	06/10/23 04:11	5
Diesel Range Organics (Over C10-C28)	10800		250	mg/Kg		06/08/23 09:17	06/10/23 04:11	5
Oll Range Organics (Over C28-C36)	1550		250	mg/Kg		06/08/23 09:17	06/10/23 04:11	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	10700	101	mg/Kg			06/09/23 19:28	20		

70 - 130

70 - 130

155 S1+

180 S1+

Eurofins Carlsbad

5

5

Surrogate Summary

Client: Ensolum Job ID: 890-4788-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4781-A-1-F MS	Matrix Spike	93	92	
890-4781-A-1-G MSD	Matrix Spike Duplicate	108	102	
890-4788-1	SS01	94	106	
890-4788-2	SS02	138 S1+	70	
890-4788-3	SS03	167 S1+	94	
LCS 880-55037/1-A	Lab Control Sample	97	105	
LCSD 880-55037/2-A	Lab Control Sample Dup	96	102	
MB 880-55037/5-A	Method Blank	90	111	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ne (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recove
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-29167-A-22-C MS	Matrix Spike	137 S1+	144 S1+	
880-29167-A-22-D MSD	Matrix Spike Duplicate	143 S1+	147 S1+	
890-4788-1	SS01	106	117	
890-4788-2	SS02	127	150 S1+	
890-4788-3	SS03	155 S1+	180 S1+	
LCS 880-55014/2-A	Lab Control Sample	89	101	
LCSD 880-55014/3-A	Lab Control Sample Dup	93	108	
MB 880-55014/1-A	Method Blank	0.02 S1-	0.03 S1-	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-4788-1 SDG: 03C1558244 Project/Site: Poker Lake Unit 224

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-55037/5-A

Matrix: Solid

Analysis Batch: 55385

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55037

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/08/23 13:04	06/13/23 14:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/08/23 13:04	06/13/23 14:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/08/23 13:04	06/13/23 14:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/08/23 13:04	06/13/23 14:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/08/23 13:04	06/13/23 14:24	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		06/08/23 13:04	06/13/23 14:24	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 - 130	06/08/23 13:04	06/13/23 14:24	1
1,4-Difluorobenzene (Surr)	111	70 - 130	06/08/23 13:04	06/13/23 14:24	1

LCS LCS

Lab Sample ID: LCS 880-55037/1-A

Matrix: Solid

Analysis Batch: 55385

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55037

							,	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1164		mg/Kg		116	70 - 130	
Toluene	0.100	0.1157		mg/Kg		116	70 - 130	
Ethylbenzene	0.100	0.1040		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.1933		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.09140		mg/Kg		91	70 - 130	

Spike

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: LCSD 880-55037/2-A

Matrix: Solid

Analysis Batch: 55385

Client Sample ID: Lab Control Sample Dup
--

Prep Type: Total/NA

Prep Batch: 55037

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1440	*+	mg/Kg		144	70 - 130	21	35	
Toluene	0.100	0.1378	*+	mg/Kg		138	70 - 130	17	35	
Ethylbenzene	0.100	0.1158		mg/Kg		116	70 - 130	11	35	
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		111	70 - 130	13	35	
o-Xylene	0.100	0.1050		mg/Kg		105	70 - 130	14	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1.4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-4781-A-1-F MS

Matrix: Solid

Analysis Batch: 55385

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 55037

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U *+	0.101	0.1061		mg/Kg		105	70 - 130	
Toluene	< 0.00199	U *+	0.101	0.1028		mg/Kg		102	70 - 130	

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Prep Type: Total/NA

Prep Batch: 55037

QC Sample Results

Client: Ensolum Job ID: 890-4788-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

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

Lab Sample ID: 890-4781-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 55385

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.101	0.07489		mg/Kg		74	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1372	F1	mg/Kg		68	70 - 130	
o-Xylene	<0.00199	U F1	0.101	0.06696	F1	mg/Kg		66	70 - 130	
	MS	MS								

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: 890-4781-A-1-G MSD

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ab Sample ID: 890-4781-A-1-G MSD	Client Sample ID: Matrix Spike Duplicate
atrix: Solid	Prep Type: Total/NA
nalysis Batch: 55385	Prep Batch: 55037

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits RPD Limit 0.100 Benzene <0.00199 U*+ 0.1063 mg/Kg 106 70 - 130 0 35 Toluene <0.00199 U*+ 0.100 0.1059 mg/Kg 106 70 - 130 3 35 Ethylbenzene <0.00199 U 0.100 0.08181 82 70 - 130 9 35 mg/Kg <0.00398 UF1 0.200 0.1631 70 - 130 17 35 m-Xylene & p-Xylene mg/Kg 81 <0.00199 UF1 0.100 0.07958 79 70 - 130 o-Xylene mg/Kg 17

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-55014/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 55084

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/08/23 09:17	06/09/23 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/08/23 09:17	06/09/23 19:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/08/23 09:17	06/09/23 19:43	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	0.02	S1-	70 - 130	06/08/23 09:17	06/09/23 19:43	1
o-Terphenyl	0.03	S1-	70 - 130	06/08/23 09:17	06/09/23 19:43	1

Lab Sample ID: LCS 880-55014/2-A

Matrix: Solid

Matrix: Solid							Prep Ty	pe: Tota	al/NA
Analysis Batch: 55084							Prep E	Batch: 5	5014
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	612.5	*_	mg/Kg		61	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	788.9		mg/Kg		79	70 - 130		
C10-C28)									

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Client Sample ID: Lab Control Sample

Prep Batch: 55014

Job ID: 890-4788-1

SDG: 03C1558244

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

Lab Sample ID: LCS 880-55014/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Project/Site: Poker Lake Unit 224

Analysis Batch: 55084

Prep Type: Total/NA Prep Batch: 55014

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 89 70 - 130 o-Terphenyl 101 70 - 130

Lab Sample ID: LCSD 880-55014/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Client: Ensolum

Analysis Batch: 55084

Prep Type: Total/NA Prep Batch: 55014

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 634.6 63 70 - 13020 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 1000 839.7 84 mg/Kg 70 - 1306 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 93 70 - 130 1-Chlorooctane 108 70 - 130 o-Terphenyl

Lab Sample ID: 880-29167-A-22-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 55084

Prep Batch: 55014 Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits U*-

Gasoline Range Organics <49.9 1000 1019 mg/Kg 102 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 1000 1143 mg/Kg 114 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits S1+ 70 - 130 1-Chlorooctane 137 144 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: 880-29167-A-22-D MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 55084

Prep Batch: 55014 Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U *-998 1182 Gasoline Range Organics <49.9 118 70 - 130 15 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 1185 mg/Kg 119 70 - 130 20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	143	S1+	70 - 130
o-Terphenyl	147	S1+	70 - 130

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Prep Type: Total/NA

Job ID: 890-4788-1

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-55022/1-A

Matrix: Solid

Analysis Batch: 55120

MB MB

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 06/09/23 10:37

Lab Sample ID: LCS 880-55022/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 55120

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 248.0 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-55022/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 55120

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250.6 250 mg/Kg 100 90 - 110

Lab Sample ID: 890-4786-A-2-C MS

Matrix: Solid

Analysis Batch: 55120

MS MS Spike %Rec Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 284 249 538.7 102 90 - 110 mg/Kg

Lab Sample ID: 890-4786-A-2-D MSD

Matrix: Solid

Analysis Batch: 55120

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 284 249 535.5 mg/Kg 101 90 - 110

Lab Sample ID: MB 880-55020/1-A

Matrix: Solid

Analysis Batch: 55162

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Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 06/09/23 17:00

Lab Sample ID: LCS 880-55020/2-A

Matrix: Solid

Analysis Batch: 55162

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 252.4 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-55020/3-A

Matrix: Solid

Analysis Batch: 55162

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 254.4 mg/Kg 102 90 - 110 20

Chloride

QC Sample Results

Client: Ensolum Job ID: 890-4788-1 Project/Site: Poker Lake Unit 224

SDG: 03C1558244

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Method: 300.0 - Anions, Ion Chromatography

91.2

Lab Sample ID: 880-29276-A-5-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble Analysis Batch: 55162

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 91.2 249 349.5 mg/Kg 104 90 - 110

Lab Sample ID: 880-29276-A-5-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 55162

350.2

mg/Kg

104

90 - 110

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec

249

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QC Association Summary

Client: Ensolum Job ID: 890-4788-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

GC VOA

Prep Batch: 55037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Total/NA	Solid	5035	
890-4788-2	SS02	Total/NA	Solid	5035	
890-4788-3	SS03	Total/NA	Solid	5035	
MB 880-55037/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55037/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55037/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4781-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
890-4781-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 55385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Total/NA	Solid	8021B	55037
890-4788-2	SS02	Total/NA	Solid	8021B	55037
890-4788-3	SS03	Total/NA	Solid	8021B	55037
MB 880-55037/5-A	Method Blank	Total/NA	Solid	8021B	55037
LCS 880-55037/1-A	Lab Control Sample	Total/NA	Solid	8021B	55037
LCSD 880-55037/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55037
890-4781-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	55037
890-4781-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	55037

Analysis Batch: 55494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Total/NA	Solid	Total BTEX	
890-4788-2	SS02	Total/NA	Solid	Total BTEX	
890-4788-3	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 55014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Total/NA	Solid	8015NM Prep	
890-4788-2	SS02	Total/NA	Solid	8015NM Prep	
890-4788-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-55014/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-55014/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-55014/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29167-A-22-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-29167-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 55084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Total/NA	Solid	8015B NM	55014
890-4788-2	SS02	Total/NA	Solid	8015B NM	55014
890-4788-3	SS03	Total/NA	Solid	8015B NM	55014
MB 880-55014/1-A	Method Blank	Total/NA	Solid	8015B NM	55014
LCS 880-55014/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	55014
LCSD 880-55014/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	55014
880-29167-A-22-C MS	Matrix Spike	Total/NA	Solid	8015B NM	55014
880-29167-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	55014

QC Association Summary

Client: Ensolum Job ID: 890-4788-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

GC Semi VOA

Analysis Batch: 55342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Total/NA	Solid	8015 NM	
890-4788-2	SS02	Total/NA	Solid	8015 NM	
890-4788-3	SS03	Total/NA	Solid	8015 NM	
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HPLC/IC

Leach Batch: 55020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-3	SS03	Soluble	Solid	DI Leach	 .
MB 880-55020/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-55020/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-55020/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29276-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-29276-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 55022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Soluble	Solid	DI Leach	
890-4788-2	SS02	Soluble	Solid	DI Leach	
MB 880-55022/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-55022/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-55022/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4786-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4786-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 55120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Soluble	Solid	300.0	55022
890-4788-2	SS02	Soluble	Solid	300.0	55022
MB 880-55022/1-A	Method Blank	Soluble	Solid	300.0	55022
LCS 880-55022/2-A	Lab Control Sample	Soluble	Solid	300.0	55022
LCSD 880-55022/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	55022
890-4786-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	55022
890-4786-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	55022

Analysis Batch: 55162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-3	SS03	Soluble	Solid	300.0	55020
MB 880-55020/1-A	Method Blank	Soluble	Solid	300.0	55020
LCS 880-55020/2-A	Lab Control Sample	Soluble	Solid	300.0	55020
LCSD 880-55020/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	55020
880-29276-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	55020
880-29276-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	55020

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Client: Ensolum Job ID: 890-4788-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: SS01 Lab Sample ID: 890-4788-1 Date Collected: 06/06/23 11:45

Matrix: Solid

Date Received: 06/06/23 16:09

	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	55037	06/08/23 13:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55385	06/13/23 22:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55494	06/14/23 09:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55342	06/12/23 14:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	55014	06/08/23 09:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55084	06/10/23 04:33	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	55022	06/08/23 09:45	KS	EET MID
Soluble	Analysis	300.0		10			55120	06/09/23 13:16	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4788-2

Date Collected: 06/06/23 11:50 Matrix: Solid Date Received: 06/06/23 16:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	55037	06/08/23 13:04	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	55385	06/13/23 22:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55494	06/14/23 09:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55342	06/12/23 14:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55014	06/08/23 09:17	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	55084	06/10/23 03:49	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	55022	06/08/23 09:45	KS	EET MID
Soluble	Analysis	300.0		20			55120	06/09/23 13:22	CH	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-4788-3

Date Collected: 06/06/23 11:55 **Matrix: Solid** Date Received: 06/06/23 16:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	55037	06/08/23 13:04	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	55385	06/13/23 22:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55494	06/14/23 09:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55342	06/12/23 14:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.010 g	10 mL	55014	06/08/23 09:17	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	55084	06/10/23 04:11	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	55020	06/08/23 09:43	KS	EET MID
Soluble	Analysis	300.0		20			55162	06/09/23 19:28	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4788-1 Project/Site: Poker Lake Unit 224

SDG: 03C1558244

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date		
		ELAP	T104704400-22-25	06-30-23		
The following analytes the agency does not of	• •	t the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for		
Analysis Method	Prep Method	Matrix	Analyte			
8015 NM		Solid	Total TPH			

Method Summary

Client: Ensolum Job ID: 890-4788-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

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: Poker Lake Unit 224

Job ID: 890-4788-1

SDG: 03C1558244

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
890-4788-1	SS01	Solid	06/06/23 11:45	06/06/23 16:09	0.5'
890-4788-2	SS02	Solid	06/06/23 11:50	06/06/23 16:09	0.5'
890-4788-3	SS03	Solid	06/06/23 11:55	06/06/23 16:09	0.5'

S S T S S S S S

City, State ZIP: Address:

Carlsbad, NM 88220 3122 National Parks Hwy

City, State ZIP:

Carlsbad, NM 88220 3104 E. Green St. XTO Energy

State of Project:

Reporting: Level II | Level III | PST/UST | TRRP |

Level IV

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ **Work Order Comments**

Company Name: Bill to: (if different)

Garret Green

Project Manager: Company Name:

Tacoma Morrissey

Ensolum

13 14

Environment Testing

Xenco

eurofins :

Chain of Custody

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

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Preservative None: NO Cool: Cool HCL: HC H ₂ S0 ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acetate+NAOH NAOH+Ascorbic A Sample Cc Incident ID: nAPP231005011 Cost Center: 113812 Tacoma M tmorrissey@e Tacoma M tmorrissey@e D: Perfert Dis C			7	gnature)	nent and relinquishn be llable only for th charge of \$85.00 wi	letal(s) to be an	200.8 / 6020													No.	No.	A Second	Temp Blank		Mariaha (32.23536, -1	03C155	Poker Lake	303-887-2946
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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4788-1 SDG Number: 03C1558244

Login Number: 4788 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4788-1

SDG Number: 03C1558244

Login Number: 4788
List Source: Eurofins Midland
List Number: 2
List Creation: 06/08/23 10:12 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 7/3/2023 11:39:43 AM

JOB DESCRIPTION

Poker Lake Unit 224 SDG NUMBER 03C1558244

JOB NUMBER

890-4856-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 7/3/2023 11:39:43 AM

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

Client: Ensolum
Project/Site: Poker Lake Unit 224
Laboratory Job ID: 890-4856-1
SDG: 03C1558244

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Definitions/Glossary

Client: Ensolum Job ID: 890-4856-1 Project/Site: Poker Lake Unit 224

SDG: 03C1558244

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

TEF

TEQ

TNTC

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

Eurofins Carlsbad

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ensolum

Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1

SDG: 03C1558244

Job ID: 890-4856-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4856-1

Receipt

The samples were received on 6/23/2023 3:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH03 (890-4856-1) and PH03 (890-4856-2).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-56542/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-56726/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH03 (890-4856-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-56726 and analytical batch 880-56652 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: PH03 (890-4856-1), PH03 (890-4856-2), (880-30102-A-1-E), (880-30102-A-1-F MS) and (880-30102-A-1-G 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 880-56502 and analytical batch 880-56450 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-56386 and analytical batch 880-56440 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-4856-1

Client: Ensolum Job ID: 890-4856-1

Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: PH03

Date Collected: 06/23/23 09:45 Date Received: 06/23/23 15:07

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.183		0.0498	mg/Kg		06/29/23 08:40	06/29/23 20:27	25
Toluene	5.11		0.0498	mg/Kg		06/29/23 08:40	06/29/23 20:27	25
Ethylbenzene	6.49		0.0498	mg/Kg		06/29/23 08:40	06/29/23 20:27	25
m-Xylene & p-Xylene	39.4		0.201	mg/Kg		06/30/23 15:48	07/01/23 12:02	50
o-Xylene	8.19		0.0498	mg/Kg		06/29/23 08:40	06/29/23 20:27	25
Xylenes, Total	53.4		0.201	mg/Kg		06/30/23 15:48	07/01/23 12:02	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130			06/29/23 08:40	06/29/23 20:27	25
1,4-Difluorobenzene (Surr)	99		70 - 130			06/29/23 08:40	06/29/23 20:27	25
Method: TAL SOP Total BTEX -	Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	59.4		0.201	mg/Kg			06/30/23 15:46	1
Method: SW846 8015 NM - Diese	al Banga Organ	ico (DBO) (CC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10100		249	mg/Kg			06/29/23 09:09	1
· · · · · · · · · · · · · · · · · · ·				0 0				
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	2930		040			06/28/23 13:20		Diriac
(GRO)-C6-C10			249	mg/Kg		00/20/20 10.20	06/29/23 06:09	5
Diesel Range Organics (Over	7160		249	mg/Kg		06/28/23 13:20	06/29/23 06:09	5
Diesel Range Organics (Over C10-C28)		U						5
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	7160		249	mg/Kg		06/28/23 13:20	06/29/23 06:09	5 5 5
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	7160 <249		249 249	mg/Kg		06/28/23 13:20 06/28/23 13:20	06/29/23 06:09 06/29/23 06:09	5 5 Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	7160 <249 %Recovery	Qualifier	249 249 <i>Limits</i>	mg/Kg		06/28/23 13:20 06/28/23 13:20 Prepared	06/29/23 06:09 06/29/23 06:09 <i>Analyzed</i>	5 5 Dil Fac
Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	7160 <249 %Recovery 223 154	Qualifier S1+ S1+	249 249 Limits 70 - 130 70 - 130	mg/Kg		06/28/23 13:20 06/28/23 13:20 Prepared 06/28/23 13:20	06/29/23 06:09 06/29/23 06:09 Analyzed 06/29/23 06:09	
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	7160 <249 %Recovery 223 154 Chromatograp	Qualifier S1+ S1+	249 249 Limits 70 - 130 70 - 130	mg/Kg	D	06/28/23 13:20 06/28/23 13:20 Prepared 06/28/23 13:20	06/29/23 06:09 06/29/23 06:09 Analyzed 06/29/23 06:09	5 5 Dil Fac

Client Sample ID: PH03

Date Collected: 06/23/23 09:55 Date Received: 06/23/23 15:07

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/29/23 08:40	06/29/23 19:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/29/23 08:40	06/29/23 19:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/29/23 08:40	06/29/23 19:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/29/23 08:40	06/29/23 19:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/29/23 08:40	06/29/23 19:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/29/23 08:40	06/29/23 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			06/29/23 08:40	06/29/23 19:25	

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Lab Sample ID: 890-4856-2

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-4856-1 SDG: 03C1558244

Project/Site: Poker Lake Unit 224

Client Sample ID: PH03 Lab Sample ID: 890-4856-2 Date Collected: 06/23/23 09:55 Matrix: Solid

Date Received: 06/23/23 15:07 Sample Depth: 5

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	80		70 - 130			06/29/23 08:40	06/29/23 19:25	
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/30/23 15:46	
Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			06/29/23 09:09	
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015B NM - Di			(GC)					
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		06/28/23 13:20	06/29/23 05:03	•
GRO)-C6-C10 Diesel Range Organics (Over	<49.9	П	49.9	mg/Kg		06/28/23 13:20	06/29/23 05:03	
	143.3	O	49.9	mg/Ng		00/20/23 13.20	00/29/20 00:00	
5 5 ,								
C10-C28) DII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/28/23 13:20	06/29/23 05:03	
C10-C28)	<49.9 %Recovery		49.9 <i>Limits</i>	mg/Kg		06/28/23 13:20 Prepared	06/29/23 05:03 Analyzed	Dil Fa
C10-C28) DII Range Organics (Over C28-C36)	%Recovery			mg/Kg				Dil Fa

49.8

mg/Kg

7380

06/27/23 20:48

Surrogate Summary

Job ID: 890-4856-1 Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-30147-A-1-C MS	Matrix Spike	103	110
880-30147-A-1-D MSD	Matrix Spike Duplicate	104	115
890-4856-1	PH03	168 S1+	99
890-4856-2	PH03	81	80
890-4878-A-4-B MS	Matrix Spike	111	86
890-4878-A-4-C MSD	Matrix Spike Duplicate	114	100
LCS 880-56542/1-A	Lab Control Sample	101	108
LCS 880-56726/1-A	Lab Control Sample	131 S1+	91
LCSD 880-56542/2-A	Lab Control Sample Dup	107	113
LCSD 880-56726/2-A	Lab Control Sample Dup	120	88
MB 880-56542/5-A	Method Blank	68 S1-	99
MB 880-56653/5-A	Method Blank	102	105
MB 880-56726/5-A	Method Blank	110	91

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-30102-A-1-F MS	Matrix Spike	210 S1+	158 S1+	
80-30102-A-1-G MSD	Matrix Spike Duplicate	180 S1+	133 S1+	
90-4856-1	PH03	223 S1+	154 S1+	
90-4856-2	PH03	172 S1+	158 S1+	
CS 880-56502/2-A	Lab Control Sample	112	100	
CSD 880-56502/3-A	Lab Control Sample Dup	108	96	
1B 880-56502/1-A	Method Blank	131 S1+	117	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4856-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56542/5-A

Matrix: Solid Analysis Batch: 56541 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56542

MB	MB	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/23 08:40	06/29/23 12:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 08:40	06/29/23 12:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 08:40	06/29/23 12:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 08:40	06/29/23 12:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 08:40	06/29/23 12:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 08:40	06/29/23 12:06	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pre	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	06/29/	23 08:40	06/29/23 12:06	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/29/	23 08:40	06/29/23 12:06	1

Lab Sample ID: LCS 880-56542/1-A **Client Sample ID: Lab Control Sample**

LCS LCS

0.1147

mg/Kg

Matrix: Solid

Analysis Batch: 56541

Prep Type: Total/NA

Prep Batch: 56542

Spike Analyte Added Result Qualifier Unit %Rec Limits mg/Kg Benzene 0.100 0.1215 121 70 - 130 Toluene 0.100 0.1122 mg/Kg 112 70 - 130 0.100 Ethylbenzene 0.1133 mg/Kg 113 70 - 130 0.200 0.2384 70 - 130 m-Xylene & p-Xylene mg/Kg 119

0.100

o-Xylene

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-56542/2-A

Matrix: Solid

Analysis Batch: 56541

Client Sample ID: Lab Control Sample Dup

70 - 130

115

Prep Type: Total/NA Prep Batch: 56542

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1186 mg/Kg 119 70 - 130 2 35 Toluene 0.100 0.1098 mg/Kg 110 70 - 130 2 35 Ethylbenzene 0.100 0.1112 mg/Kg 111 70 - 130 2 35 0.200 m-Xylene & p-Xylene 0.2328 mg/Kg 116 70 - 130 35 0.100 0.1120 o-Xylene mg/Kg 112 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1.4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-30147-A-1-C MS

Matrix: Solid

Analysis Batch: 56541

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

Prep Batch: 56542

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.1116		mg/Kg		112	70 - 130	
Toluene	<0.00201	U	0.0996	0.1034		mg/Kg		103	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-4856-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

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

Lab Sample ID: 880-30147-A-1-C MS

Lab Sample ID: 880-30147-A-1-D MSD

Matrix: Solid

Matrix: Solid

m-Xylene & p-Xylene

o-Xylene

Analysis Batch: 56541

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56542

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00201 U 0.0996 0.1007 101 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00402 U 0.199 0.2088 mg/Kg 105 70 - 130 0.0996 o-Xylene <0.00201 U 0.1007 mg/Kg 101 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Client Sample ID: Matrix Spike Duplicate

70 - 130

70 - 130

108

104

mg/Kg

mg/Kg

Prep Type: Total/NA

Prep Batch: 56542 RPD

3

3

Analysis Batch: 56541 Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Unit Limits 0.0994 Benzene <0.00201 U 0.1205 mg/Kg 121 70 - 130 8 35 Toluene 0.0994 35 <0.00201 U 0.1069 mg/Kg 107 70 - 130 3 Ethylbenzene <0.00201 U 0.0994 0.1038 mg/Kg 104 70 - 130 3 35

0.2146

0.1036

0.199

0.0994

MSD MSD

<0.00402 U

<0.00201 U

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 _ 130
1 4-Difluorobenzene (Surr)	115	70 130

Lab Sample ID: MB 880-56653/5-A

Matrix: Solid

Analysis Batch: 56652

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56653

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/30/23 08:28	06/30/23 14:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/30/23 08:28	06/30/23 14:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/30/23 08:28	06/30/23 14:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/30/23 08:28	06/30/23 14:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/30/23 08:28	06/30/23 14:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/30/23 08:28	06/30/23 14:40	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/30/23 08:28	06/30/23 14:40	1
1,4-Difluorobenzene (Surr)	105		70 - 130	06/30/23 08:28	06/30/23 14:40	1

Lab Sample ID: MB 880-56726/5-A

Matrix: Solid

Analysis Batch: 56652

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56726

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/30/23 15:48	07/01/23 03:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/30/23 15:48	07/01/23 03:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/30/23 15:48	07/01/23 03:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/30/23 15:48	07/01/23 03:35	1

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QC Sample Results

Client: Ensolum Job ID: 890-4856-1 SDG: 03C1558244 Project/Site: Poker Lake Unit 224

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

Lab Sample ID: MB 880-56726/5-A

Matrix: Solid

Analysis Batch: 56652

Prep Type: Total/NA

Prep Batch: 56726

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/30/23 15:48	07/01/23 03:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/30/23 15:48	07/01/23 03:35	1

MD MD

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110	70 - 130	06/30/23 15:48	07/01/23 03:35	1
1,4-Difluorobenzene (Surr)	91	70 - 130	06/30/23 15:48	07/01/23 03:35	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-56726/1-A

Lab Sample ID: LCSD 880-56726/2-A

Matrix: Solid

Analysis Batch: 56652

Matrix: Solid Prep Type: Total/NA

Prep Batch: 56726

	Spike L	CS LCS				%Rec	
Analyte	Added Res	ult Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100 0.13	55 *+	mg/Kg	_	136	70 - 130	
Toluene	0.100 0.13	45 *+	mg/Kg		135	70 - 130	
Ethylbenzene	0.100 0.12	77	mg/Kg		128	70 - 130	
m-Xylene & p-Xylene	0.200 0.24	68	mg/Kg		123	70 - 130	
o-Xylene	0.100 0.11	63	mg/Kg		116	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130		
1.4-Difluorobenzene (Surr)	91		70 - 130		

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 56726

Analysis Batch: 56652

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1324	*+	mg/Kg		132	70 - 130	2	35	
Toluene	0.100	0.1369	*+	mg/Kg		137	70 - 130	2	35	
Ethylbenzene	0.100	0.1233		mg/Kg		123	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.2352		mg/Kg		118	70 - 130	5	35	
o-Xvlene	0.100	0.1103		mg/Kg		110	70 - 130	5	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	120	70 _ 130
1.4-Difluorobenzene (Surr)	88	70 - 130

Lab Sample ID: 890-4878-A-4-B MS Client Sample ID: Matrix Spike

Matrix: Solid Analysis Batch: 56652 Prep Type: Total/NA

Prep Batch: 56726

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *+	0.0996	0.1288		mg/Kg		129	70 - 130	
Toluene	<0.00200	U *+	0.0996	0.1289		mg/Kg		129	70 - 130	
Ethylbenzene	<0.00200	U	0.0996	0.1107		mg/Kg		111	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2149		mg/Kg		108	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.1017		mg/Kg		102	70 - 130	

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 56726

Client: Ensolum Job ID: 890-4856-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

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

Lab Sample ID: 890-4878-A-4-B MS

Matrix: Solid

Analysis Batch: 56652

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1.4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-4878-A-4-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 56652									Prep	Batch:	56726
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U *+	0.0994	0.1271		mg/Kg		128	70 - 130	1	35
Toluene	<0.00200	U *+	0.0994	0.1179		mg/Kg		119	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.0994	0.09808		mg/Kg		99	70 - 130	12	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1901		mg/Kg		96	70 - 130	12	35
o-Xylene	<0.00200	U	0.0994	0.08983		mg/Kg		90	70 - 130	12	35

MSD MSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 114 70 - 130 1,4-Difluorobenzene (Surr) 100 70 - 130

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

Lab Sample ID: MB 880-56502/1-A

Matrix: Solid

Analysis Batch: 56450

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/28/23 13:20	06/28/23 20:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/28/23 13:20	06/28/23 20:49	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/28/23 13:20	06/28/23 20:49	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	06/28/23 13:20	06/28/23 20:49	1
o-Terphenyl	117		70 - 130	06/28/23 13:20	06/28/23 20:49	1

Lab Sample ID: LCS 880-56502/2-A

Analysis Batch: 56450

Matrix: Solid

Analysis Batom 60-100								Daton. ot
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1220		mg/Kg		122	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	907.8		mg/Kg		91	70 - 130	

C10-C28)

	LCS LCS				
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	112		70 - 130		
o-Terphenyl	100		70 - 130		

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

Prep Batch: 56502

Prep Batch: 56502

Client: Ensolum Job ID: 890-4856-1 Project/Site: Poker Lake Unit 224

SDG: 03C1558244

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

Lab Sample ID: LCSD 880-56502/3-A

Matrix: Solid

Analysis Batch: 56450

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 56502

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 56502

Spike LCSD LCSD RPD Limit Analyte Added Result Qualifier %Rec Limits RPD Unit Gasoline Range Organics 1000 1263 mg/Kg 126 70 - 130 4 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 967.6 70 - 130 mg/Kg 97 6 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-30102-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 56450

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1118		mg/Kg		110	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1112		mg/Kg		110	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 210 S1+ 70 - 130 o-Terphenyl 158 S1+ 70 - 130

Lab Sample ID: 880-30102-A-1-G MSD

Matrix: Solid

Analysis Batch: 56450	lalysis Batch: 56450							Prep Batch: 56502			
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1023		mg/Kg		101	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	954.3		mg/Kg		94	70 - 130	15	20

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	180	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56386/1-A

Matrix: Solid

Analysis Batch: 56440

MB MB

MSD MSD

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/27/23 20:13	1

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Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-4856-1 Project/Site: Poker Lake Unit 224

SDG: 03C1558244

Client Sample ID: PH03

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-56386/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 56440

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 244.2 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-56386/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 56440

Spike LCSD LCSD %Rec RPD Added Result Qualifier Unit RPD Limit Analyte D %Rec Limits Chloride 250 244.2 mg/Kg 98 90 - 110 0

Lab Sample ID: 890-4856-1 MS **Client Sample ID: PH03 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 56440

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 5940 F1 2500 8174 F1 89 90 - 110 mg/Kg

Lab Sample ID: 890-4856-1 MSD

Matrix: Solid

Analysis Batch: 56440

Sample Sample Spike MSD MSD RPD %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits 5940 2500 Chloride F1 8143 F1 88 90 - 110 0 20 mg/Kg

QC Association Summary

Client: Ensolum Job ID: 890-4856-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

GC VOA

Analysis Batch: 56541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	8021B	56542
890-4856-2	PH03	Total/NA	Solid	8021B	56542
MB 880-56542/5-A	Method Blank	Total/NA	Solid	8021B	56542
LCS 880-56542/1-A	Lab Control Sample	Total/NA	Solid	8021B	56542
LCSD 880-56542/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56542
880-30147-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	56542
880-30147-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56542

Prep Batch: 56542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	5035	
890-4856-2	PH03	Total/NA	Solid	5035	
MB 880-56542/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56542/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56542/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30147-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-30147-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 56652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	8021B	56726
MB 880-56653/5-A	Method Blank	Total/NA	Solid	8021B	56653
MB 880-56726/5-A	Method Blank	Total/NA	Solid	8021B	56726
LCS 880-56726/1-A	Lab Control Sample	Total/NA	Solid	8021B	56726
LCSD 880-56726/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56726
890-4878-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	56726
890-4878-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56726

Prep Batch: 56653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56653/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 56721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	Total BTEX	
890-4856-2	PH03	Total/NA	Solid	Total BTEX	

Prep Batch: 56726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	5035	
MB 880-56726/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56726/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56726/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4878-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4878-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 56450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	8015B NM	56502

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QC Association Summary

Client: Ensolum Job ID: 890-4856-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

GC Semi VOA (Continued)

Analysis Batch: 56450 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-2	PH03	Total/NA	Solid	8015B NM	56502
MB 880-56502/1-A	Method Blank	Total/NA	Solid	8015B NM	56502
LCS 880-56502/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56502
LCSD 880-56502/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56502
880-30102-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	56502
880-30102-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56502

Prep Batch: 56502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	8015NM Prep	
890-4856-2	PH03	Total/NA	Solid	8015NM Prep	
MB 880-56502/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56502/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56502/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30102-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-30102-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	8015 NM	
890-4856-2	PH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Soluble	Solid	DI Leach	
890-4856-2	PH03	Soluble	Solid	DI Leach	
MB 880-56386/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56386/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56386/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4856-1 MS	PH03	Soluble	Solid	DI Leach	
890-4856-1 MSD	PH03	Soluble	Solid	DI Leach	

Analysis Batch: 56440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Soluble	Solid	300.0	56386
890-4856-2	PH03	Soluble	Solid	300.0	56386
MB 880-56386/1-A	Method Blank	Soluble	Solid	300.0	56386
LCS 880-56386/2-A	Lab Control Sample	Soluble	Solid	300.0	56386
LCSD 880-56386/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56386
890-4856-1 MS	PH03	Soluble	Solid	300.0	56386
890-4856-1 MSD	PH03	Soluble	Solid	300.0	56386

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Client: Ensolum

Job ID: 890-4856-1

Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Lab Sample ID: 890-4856-1

Matrix: Solid

Date Collected: 06/23/23 09:45 Date Received: 06/23/23 15:07

Client Sample ID: PH03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	56726	06/30/23 15:48	EL	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	56652	07/01/23 12:02	SM	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	56542	06/29/23 08:40	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	56541	06/29/23 20:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56721	06/30/23 15:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			56549	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	56450	06/29/23 06:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56386	06/27/23 09:33	СН	EET MID
Soluble	Analysis	300.0		10			56440	06/27/23 20:31	CH	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-4856-2

Date Collected: 06/23/23 09:55 Matrix: Solid

Date Received: 06/23/23 15:07

	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	56542	06/29/23 08:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56541	06/29/23 19:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56721	06/30/23 15:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			56549	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/29/23 05:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56386	06/27/23 09:33	CH	EET MIC
Soluble	Analysis	300.0		10			56440	06/27/23 20:48	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4856-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
N/A	N/A	None on record.	

Method Summary

Client: Ensolum Job ID: 890-4856-1 Project/Site: Poker Lake Unit 224

SDG: 03C1558244

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: Poker Lake Unit 224

Job ID: 890-4856-1

SDG: 03C1558244

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4856-1	PH03	Solid	06/23/23 09:45	06/23/23 15:07	3
890-4856-2	PH03	Solid	06/23/23 09:55	06/23/23 15:07	5

eurofins:

Xenco

Environment Testing

City, State ZIP:

Carlsbad, NM 88220 3122 National Parks Hwy

City, State ZIP:

Carlsbad, NM 88220 3104 E. Green St. XTO Energy

Company Name: Bill to: (if different)

Project Manager: Company Name: Address:

Ben Belili

Ensolum

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Chain of Custody

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

1 Cttt)	Dolingriighed hy: (Cianatura)	otice: Signature of this document and relinquishment of samples f service. Eurofins Xenco will be liable only for the cost of sampl f Eurofins Xenco. A minimum charge of \$85.00 will be applied to	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 200.8 / 6020:	2000									6H03 5 6/25/23	15 C/23	Sample Identification Matrix Sampled	Total Containers: Correcte	Sample Custody Seats: Yes No W/A Temper	Cooler Custody Seals: Yes No N/A Correcti	Samples Received Intact: Ves No Thermo	SAMPLE RECEIPT Temp Blank: (Yes)	PO#.	Sampler's Name: Connor Whitman	Project Location:	Project Number: 03C1558244	Project Name: Poker Lake Unit 224	Phone: 303-887-2946
			Received by: (Signature)	constitutes a valid purchase order from c es and shall not assume any responsibility each project and a charge of \$5 for each s	TCLP / SPLP 6010: BRCRA	SKCKA 13TTM lexas 11	3000				/	1	<i>A</i>			73 955 5' G	125/20 945 3' G	e Time Depth Comp	Corrected Temperature: 5.5	N/A Temperature Reading: 0 . 0	Correction Factor: - 0 - 0	Thermometer ID: NumOo7	No Wet ice: (Yes) No	the lab, if received by 4:30pm	TAT starts the day received by	Due Date:	Routine Rush	Turn Around	Email: Garrett, Green@ExxonMobil.com
600	00	-		Hent comp y for any lu sample su	CRA.	~	> Ch			1							~	/ # of Cont		<u> </u>	Pi	arar	nete				Code		n@Exxc
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4		1507	Relinquished by: (Signature) Received by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	CO CO CO FO WITH WID NI SE AG IT O 19	Co Cu Fe Fb Mg	Ca Cr Ca Cii Ea Bh Ma													890-4856 Chain of Custody								ANALYSIS REQUEST	Deliverables: EDD
			Signature) Date/Time	ons ntrol ptilated.	11g. 10317 243.17 (470 7747)	1631 / 245 1 / 2470 / 2471	Mn Mo Ni K Se An SiO, Na Sr Ti Sn II V Zn						AFE	1138121001	Cost Center:	nAPP2310050120	Incident ID:	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO4: NABIS	H₃PO₄; HP	H ₂ SO ₄ : H ₂ NaOH: Na	HCL: HC HNO3: HN	Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	Preservative Codes	ADaPT LJ Other:

Program: UST/PST 🗌 PRP 🛮 Brownfields 🗎 RRC 🗎 Superfund 🗎

Work Order Comments

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Reporting: Level II | Level III | PST/UST | TRRP |

Level IV

ADaPT 🗆

State of Project:

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4856-1 SDG Number: 03C1558244

Login Number: 4856 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4856-1

SDG Number: 03C1558244

List Source: Eurofins Midland List Creation: 06/27/23 10:29 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 4856

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

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JOB DESCRIPTION

Poker Lake Unit 224 SDG NUMBER 03C1558244

JOB NUMBER

890-4873-1

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

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Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 1

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Client: Ensolum
Project/Site: Poker Lake Unit 224
Laboratory Job ID: 890-4873-1
SDG: 03C1558244

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Definitions/Glossary

Client: Ensolum Job ID: 890-4873-1 Project/Site: Poker Lake Unit 224

SDG: 03C1558244

Qualifiers

GC VOA Qualifier

*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

U **GC Semi VOA**

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

III EG/IG						
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

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QC

RER

RPD TEF

TEQ

TNTC

RL

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Case Narrative

Client: Ensolum

Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1

SDG: 03C1558244

Job ID: 890-4873-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4873-1

Receipt

The samples were received on 6/28/2023 9:16 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW01 (890-4873-1), SW02 (890-4873-2), SW03 (890-4873-3), SW04 (890-4873-4), SW05 (890-4873-5), FS01 (890-4873-6), FS02 (890-4873-7), FS03 (890-4873-8), FS04 (890-4873-9), FS05 (890-4873-10), FS06 (890-4873-11) and FS07 (890-4873-12).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4857-A-6-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW02 (890-4873-2) and SW03 (890-4873-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-56630 and analytical batch 880-56626 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-56630 and analytical batch 880-56626 recovered outside control limits for the following analytes: Benzene. Since only an acceptable LCS or LCSD is required per the method, the LCSD shows recovery for the batch; 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: Surrogate recovery for the following sample was outside control limits: SW04 (890-4873-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS01 (890-4873-6), FS02 (890-4873-7), FS03 (890-4873-8), FS04 (890-4873-9) and FS05 (890-4873-10). 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 and precision for preparation batch 880-56603 and 880-56603 and analytical batch 880-56748 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.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-56819 and analytical batch 880-56814 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: SW01 (890-4873-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike (MS) recoveries for preparation batch 880-56819 and analytical batch 880-56814 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Case Narrative

Client: Ensolum Job ID: 890-4873-1 Project/Site: Poker Lake Unit 224

SDG: 03C1558244

Job ID: 890-4873-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-56551 and analytical batch 880-56693 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: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: SW01

Date Collected: 06/27/23 10:00 Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

Lab	Samp	le IC) :	890)-48	73-	1
				84-4		0 - 1:	a

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202	mg/Kg		06/29/23 14:56	06/30/23 05:08	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 05:08	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 05:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/29/23 14:56	06/30/23 05:08	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 05:08	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/29/23 14:56	06/30/23 05:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			06/29/23 14:56	06/30/23 05:08	1
1,4-Difluorobenzene (Surr)	108		70 - 130			06/29/23 14:56	06/30/23 05:08	1

Analyte Result Qualifier RL Unit Prepared Analyzed Total BTEX <0.00403 U 0.00403 mg/Kg 06/30/23 15:25

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	65.4		49.9	mg/Kg			07/03/23 16:42	1

Method: SW846 8015B NM - Diesel Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/03/23 08:20	07/03/23 12:50	1
Diesel Range Organics (Over C10-C28)	65.4		49.9	mg/Kg		07/03/23 08:20	07/03/23 12:50	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/03/23 08:20	07/03/23 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	07/03/23 08:20	07/03/23 12:50	1
o-Terphenyl	121		70 - 130	07/03/23 08:20	07/03/23 12:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	724	F1	5.04	mg/Kg			06/30/23 14:53	1	

Client Sample ID: SW02 Lab Sample ID: 890-4873-2

Date Collected: 06/27/23 14:00 Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198	mg/Kg		06/29/23 14:56	06/30/23 05:29	1
Toluene	0.00449		0.00198	mg/Kg		06/29/23 14:56	06/30/23 05:29	1
Ethylbenzene	0.00546		0.00198	mg/Kg		06/29/23 14:56	06/30/23 05:29	1
m-Xylene & p-Xylene	0.0214		0.00396	mg/Kg		06/29/23 14:56	06/30/23 05:29	1
o-Xylene	0.0117		0.00198	mg/Kg		06/29/23 14:56	06/30/23 05:29	1
Xylenes, Total	0.0331		0.00396	mg/Kg		06/29/23 14:56	06/30/23 05:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130			06/29/23 14:56	06/30/23 05:29	

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Matrix: Solid

Client: Ensolum Job ID: 890-4873-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: SW02 Lab Sample ID: 890-4873-2

Date Collected: 06/27/23 14:00
Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

Method: SW846 8021B - Volatile	Organic Con	mpounds (GC)	(Continued)
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Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95	70 _ 130	06/29/23 14:56	06/30/23 05:29	1

Method: TAL SOP Total BTEX - Total BTEX (Calculation
motilod: IAE OOI TOTAL BIEX	Ouloulution

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0431		0.00396	mg/Kg			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	ma/Ka			07/03/23 16:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/03/23 08:20	07/03/23 13:12	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/03/23 08:20	07/03/23 13:12	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/03/23 08:20	07/03/23 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prep	pared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	07/03/2	23 08:20	07/03/23 13:12	1
o-Terphenyl	88		70 - 130	07/03/2	23 08:20	07/03/23 13:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	295		4.98	mg/Kg			06/30/23 15:09	1

Client Sample ID: SW03 Lab Sample ID: 890-4873-3

Date Collected: 06/27/23 14:05 Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

Method:	· SW846 8021	B - Volatile	Organic Co	mpounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		06/29/23 14:56	06/30/23 05:49	1
Toluene	0.00316		0.00200	mg/Kg		06/29/23 14:56	06/30/23 05:49	1
Ethylbenzene	0.00484		0.00200	mg/Kg		06/29/23 14:56	06/30/23 05:49	1
m-Xylene & p-Xylene	0.0198		0.00399	mg/Kg		06/29/23 14:56	06/30/23 05:49	1
o-Xylene	0.0103		0.00200	mg/Kg		06/29/23 14:56	06/30/23 05:49	1
Xylenes, Total	0.0301		0.00399	mg/Kg		06/29/23 14:56	06/30/23 05:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	06/29/23 14:56	06/30/23 05:49	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/29/23 14:56	06/30/23 05:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0381		0.00399	mg/Kg			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	104		49.9	mg/Kg			07/03/23 16:42	1

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2

3

6

8

10

19

13

14

Matrix: Solid

Client: Ensolum Job ID: 890-4873-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: SW03 Lab Sample ID: 890-4873-3

Date Collected: 06/27/23 14:05 Matrix: Solid Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/03/23 08:20	07/03/23 13:35	•
Diesel Range Organics (Over C10-C28)	104		49.9	mg/Kg		07/03/23 08:20	07/03/23 13:35	•
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/03/23 08:20	07/03/23 13:35	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	116		70 - 130			07/03/23 08:20	07/03/23 13:35	
o-Terphenyl	95		70 - 130			07/03/23 08:20	07/03/23 13:35	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	457		4.95	mg/Kg			06/30/23 15:14	1

Lab Sample ID: 890-4873-4 **Client Sample ID: SW04** Matrix: Solid

Date Collected: 06/27/23 15:10 Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:10	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:10	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:10	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		06/29/23 14:56	06/30/23 06:10	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:10	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		06/29/23 14:56	06/30/23 06:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			06/29/23 14:56	06/30/23 06:10	1
1,4-Difluorobenzene (Surr)	108		70 - 130			06/29/23 14:56	06/30/23 06:10	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	mg/Kg			06/30/23 15:25	1
Total BTEX	<0.00397	U	0.00397	mg/Kg			06/30/23 15:25	1
Total BTEX : Method: SW846 8015 NM - Diese				mg/Kg			06/30/23 15:25	1
- -	el Range Organ			mg/Kg Unit	<u>D</u>	Prepared	06/30/23 15:25 Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <49.9	ics (DRO) (Qualifier	RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.9 sel Range Orga	ics (DRO) (Qualifier	RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	Unit mg/Kg			Analyzed 07/03/23 11:15	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Range Organ Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U prics (DRO) Qualifier U F2	(GC) RL (GC) RL	Unit mg/Kg		Prepared	Analyzed 07/03/23 11:15 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result Seel Range Organ Result Result Result 49.9	Qualifier U nics (DRO) Qualifier U prics (DRO) Qualifier U F2	GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg		Prepared 06/29/23 12:46	Analyzed 07/03/23 11:15 Analyzed 07/01/23 12:35 07/01/23 12:35	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result Seel Range Organ Result Result Result 49.9	cos (DRO) (Control of the property of the prop	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 06/29/23 12:46	Analyzed 07/03/23 11:15 Analyzed 07/01/23 12:35	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9	cos (DRO) (Control of the property of the prop	GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 06/29/23 12:46 06/29/23 12:46	Analyzed 07/03/23 11:15 Analyzed 07/01/23 12:35 07/01/23 12:35	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	cos (DRO) (Control of the property of the prop	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 06/29/23 12:46 06/29/23 12:46 06/29/23 12:46	Analyzed 07/03/23 11:15 Analyzed 07/01/23 12:35 07/01/23 12:35	Dil Fac Dil Fac 1 1 1

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7/3/2023

Client: Ensolum SDG: 03C1558244 Project/Site: Poker Lake Unit 224

Client Sample ID: SW04 Date Collected: 06/27/23 15:10

Lab Sample ID: 890-4873-4 Matrix: Solid

Date Received: 06/28/23 09:16 Sample Depth: 0 - 4

Method: EPA 300.0 - Anions, Ion Cl	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133	4.95	mg/Kg			06/30/23 15:19	1

Client Sample ID: SW05 Lab Sample ID: 890-4873-5 **Matrix: Solid**

Date Collected: 06/27/23 15:15 Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:31	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:31	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/29/23 14:56	06/30/23 06:31	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:31	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/29/23 14:56	06/30/23 06:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			06/29/23 14:56	06/30/23 06:31	1
1,4-Difluorobenzene (Surr)	105		70 - 130			06/29/23 14:56	06/30/23 06:31	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			06/30/23 15:25	1
 Method: SW846 8015 NM - Diesel R	Range Organ	ics (DRO) (G	C)					

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.7	49.8	mg/Kg			07/03/23 11:15	1
Method: SW846 8015B NM - Diesel	Range Organics (DRO) (G	iC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

1-Chlorooctane	121		70 - 130		06/29/23 12:46	07/01/23 13:43	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	06/29/23 12:46	07/01/23 13:43	1
Diesel Range Organics (Over C10-C28)	59.7		49.8	mg/Kg	06/29/23 12:46	07/01/23 13:43	1
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg	06/29/23 12:46	07/01/23 13:43	1

o-Terphenyl	106	70 - 130	06/29/23 12:46	07/01/23 13:43	1
Method: EPA 300.0 - Anions, Ion Chro	matography - S	oluble			

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 285 5.02 mg/Kg 06/30/23 15:24

Lab Sample ID: 890-4873-6

Client Sample Results

Client: Ensolum Job ID: 890-4873-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: FS01

Date Collected: 06/27/23 10:10 Date Received: 06/28/23 09:16

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		06/29/23 14:56	06/30/23 06:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 06:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 06:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 06:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 06:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 06:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			06/29/23 14:56	06/30/23 06:52	1
1,4-Difluorobenzene (Surr)	108		70 - 130			06/29/23 14:56	06/30/23 06:52	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	<0.00400	11					00/00/00 45 05	
Total BTEX	<0.00400	U	0.00400	mg/Kg			06/30/23 15:25	1
				mg/Kg			06/30/23 15:25	1
Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ			mg/Kg Unit	D	Prepared	06/30/23 15:25 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte	Result 213	ics (DRO) (Qualifier	RL 50.2	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result 213 sel Range Orga	ics (DRO) (Qualifier	RL 50.2	Unit	<u>D</u>	Prepared Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result 213 sel Range Orga	Qualifier unics (DRO) Qualifier	RL 50.2 (GC)	Unit mg/Kg			Analyzed 07/03/23 11:15	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 213 sel Range Orga Result	Qualifier unics (DRO) Qualifier	GC) RL 50.2 (GC) RL	Unit mg/Kg		Prepared	Analyzed 07/03/23 11:15 Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result 213 sel Range Orga Result <50.2	ics (DRO) (Qualifier	GC) RL 50.2 (GC) RL 50.2	Unit mg/Kg Unit mg/Kg		Prepared 06/29/23 12:46	Analyzed 07/03/23 11:15 Analyzed 07/01/23 14:06	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 213 sel Range Orga Result <50.2	ics (DRO) (Qualifier unics (DRO) Qualifier U	GC) RL 50.2 (GC) RL 50.2 50.2	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 06/29/23 12:46 06/29/23 12:46	Analyzed 07/03/23 11:15 Analyzed 07/01/23 14:06 07/01/23 14:06	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result 213 sel Range Orga Result <50.2 213 <50.2 %Recovery	ics (DRO) (Qualifier unics (DRO) Qualifier U	GC) RL 50.2 (GC) RL 50.2 50.2 50.2	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 06/29/23 12:46 06/29/23 12:46 06/29/23 12:46	Analyzed 07/03/23 11:15 Analyzed 07/01/23 14:06 07/01/23 14:06	1 Dil Fac

Client Sample ID: FS02

Date Collected: 06/27/23 10:15

Date Received: 06/28/23 09:16

Sample Depth: 4

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202	mg/Kg		06/29/23 14:56	06/30/23 07:13	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 07:13	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 07:13	1
m-Xylene & p-Xylene	0.0115		0.00404	mg/Kg		06/29/23 14:56	06/30/23 07:13	1
o-Xylene	0.00710		0.00202	mg/Kg		06/29/23 14:56	06/30/23 07:13	1
Xylenes, Total	0.0186		0.00404	mg/Kg		06/29/23 14:56	06/30/23 07:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			06/29/23 14:56	06/30/23 07:13	1

RL

25.1

Unit

mg/Kg

D

Prepared

Analyzed

06/30/23 15:40

Lab Sample ID: 890-4873-7

Dil Fac

Matrix: Solid

Result Qualifier

3360

Lab Sample ID: 890-4873-7

Job ID: 890-4873-1

Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: FS02

Date Collected: 06/27/23 10:15 Date Received: 06/28/23 09:16

Sample Depth: 4

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

Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	06/29/23 14:56	06/30/23 07:13	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0186		0.00404	mg/Kg			06/30/23 15:25	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2400	50.0	mg/Kg			07/03/23 11:15	1

	Mothod: SW046 904ED NM Diocol Dan	go Organico (DBO) (CC)	v
ı	Method: SW846 8015B NM - Diesel Ran	ge Organics (DRO) (GC)	,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/29/23 12:46	07/01/23 14:28	1
Diesel Range Organics (Over C10-C28)	2400		50.0	mg/Kg		06/29/23 12:46	07/01/23 14:28	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/29/23 12:46	07/01/23 14:28	1
0	0/ 5	O	1 114-			D	A I I	D# 5

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	139	S1+	70 - 130	06/29/23 12:40	07/01/23 14:28	1
l	o-Terphenyl	115		70 - 130	06/29/23 12:40	07/01/23 14:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	6050		49.9	mg/Kg			06/30/23 15:45	10	

Client Sample ID: FS03 Lab Sample ID: 890-4873-8

Date Collected: 06/27/23 13:05 Date Received: 06/28/23 09:16

Sample Depth: 4

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

Mictilod. Offoro 002 ID - Volut	ne organie comp	ounus (CC)	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		06/29/23 14:56	06/30/23 08:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 08:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 08:37	1
m-Xylene & p-Xylene	0.00609		0.00401	mg/Kg		06/29/23 14:56	06/30/23 08:37	1
o-Xylene	0.00355		0.00200	mg/Kg		06/29/23 14:56	06/30/23 08:37	1
Xylenes, Total	0.00964		0.00401	mg/Kg		06/29/23 14:56	06/30/23 08:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			06/29/23 14:56	06/30/23 08:37	1
1 A-Diffuorobenzene (Surr)	104		70 130			06/20/23 14:56	06/30/23 08:37	1

_					
1,4-Difluorobenzene (Surr)	104	70 _ 130	06/29/23 14:56	06/30/23 08:37	1
4-Bromofluorobenzene (Surr)	101	70 - 130	06/29/23 14:56	06/30/23 08:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00964		0.00401	mg/Kg			06/30/23 15:25	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1210		50.1	mg/Kg			07/03/23 11:15	1

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Matrix: Solid

Job ID: 890-4873-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: FS03 Lab Sample ID: 890-4873-8

Date Collected: 06/27/23 13:05 Date Received: 06/28/23 09:16

Sample Depth: 4

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/29/23 12:46	07/01/23 14:50	1
Diesel Range Organics (Over C10-C28)	1210		50.1	mg/Kg		06/29/23 12:46	07/01/23 14:50	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/29/23 12:46	07/01/23 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			06/29/23 12:46	07/01/23 14:50	1
o-Terphenyl	112		70 - 130			06/29/23 12:46	07/01/23 14:50	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			49.7	mg/Kg			06/30/23 15:50	10

Client Sample ID: FS04 Lab Sample ID: 890-4873-9 Date Collected: 06/27/23 13:10 Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		06/29/23 14:56	06/30/23 08:58	1
Toluene	< 0.00199	U	0.00199	mg/Kg		06/29/23 14:56	06/30/23 08:58	1
Ethylbenzene	0.00205		0.00199	mg/Kg		06/29/23 14:56	06/30/23 08:58	1
m-Xylene & p-Xylene	0.00566		0.00398	mg/Kg		06/29/23 14:56	06/30/23 08:58	1
o-Xylene	0.00418		0.00199	mg/Kg		06/29/23 14:56	06/30/23 08:58	1
Xylenes, Total	0.00984		0.00398	mg/Kg		06/29/23 14:56	06/30/23 08:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			06/29/23 14:56	06/30/23 08:58	1
1,4-Difluorobenzene (Surr)	107		70 - 130			06/29/23 14:56	06/30/23 08:58	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0119		0.00398	mg/Kg			06/30/23 15:25	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	582		49.8	mg/Kg			07/03/23 11:15	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/29/23 12:46	07/01/23 15:13	1
Diesel Range Organics (Over C10-C28)	582		49.8	mg/Kg		06/29/23 12:46	07/01/23 15:13	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/29/23 12:46	07/01/23 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			06/29/23 12:46	07/01/23 15:13	1

Lab Sample ID: 890-4873-9

Job ID: 890-4873-1

Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: FS04

Date Collected: 06/27/23 13:10 Date Received: 06/28/23 09:16

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	9					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1690		24.8	mg/Kg			06/30/23 15:55	5

Lab Sample ID: 890-4873-10 **Client Sample ID: FS05** Matrix: Solid

Date Collected: 06/27/23 14:10 Date Received: 06/28/23 09:16

Sample Depth: 4

Total BTEX

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198	mg/Kg		06/29/23 14:56	06/30/23 09:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 09:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 09:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/29/23 14:56	06/30/23 09:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 09:19	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/29/23 14:56	06/30/23 09:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			06/29/23 14:56	06/30/23 09:19	1
1,4-Difluorobenzene (Surr)	106		70 - 130			06/29/23 14:56	06/30/23 09:19	1

Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GO	C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	254		49.9	mg/Kg			07/03/23 11:15	1

0.00396

Unit

mg/Kg

Prepared

Analyzed

06/30/23 15:25

Result Qualifier

<0.00396 U

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		06/29/23 12:46	07/01/23 15:35	1
(GRO)-C6-C10								
Diesel Range Organics (Over	254		49.9	mg/Kg		06/29/23 12:46	07/01/23 15:35	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/29/23 12:46	07/01/23 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			06/29/23 12:46	07/01/23 15:35	1
o-Terphenyl	116		70 - 130			06/29/23 12:46	07/01/23 15:35	1

Method: EPA 300.0 - Anions, Ion Ch	romatography - Solu	ble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2770	25.2	mg/Kg			06/30/23 16:01	5

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Released to Imaging: 1/24/2024 10:01:01 AM

Dil Fac

Client: Ensolum Job ID: 890-4873-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: FS06 Lab Sample ID: 890-4873-11

Date Collected: 06/27/23 15:20 Matrix: Solid
Date Received: 06/28/23 09:16

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		06/29/23 14:56	06/30/23 09:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 09:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 09:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 09:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 09:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 09:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			06/29/23 14:56	06/30/23 09:40	1
1,4-Difluorobenzene (Surr)	104		70 - 130			06/29/23 14:56	06/30/23 09:40	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			06/30/23 15:25	1
Method: SW846 8015 NM - Diese	ol Pango Organ	ice (DPO) ((3C)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/03/23 11:15	
=								
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Method: SW846 8015B NM - Dies Analyte	•	nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	•	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 06/29/23 12:46	Analyzed 07/01/23 15:58	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL		<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result < 50.0	Qualifier U	RL 50.0	mg/Kg	<u>D</u>	06/29/23 12:46	07/01/23 15:58	1
	Result <50.0 <50.0	Qualifier U U U	50.0 50.0	mg/Kg	<u> </u>	06/29/23 12:46 06/29/23 12:46	07/01/23 15:58 07/01/23 15:58	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	FL 50.0 50.0 50.0	mg/Kg	<u>D</u>	06/29/23 12:46 06/29/23 12:46 06/29/23 12:46	07/01/23 15:58 07/01/23 15:58 07/01/23 15:58	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <50.0 <50.0 <50.0 <50.0 <60.0 %Recovery	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u>D</u>	06/29/23 12:46 06/29/23 12:46 06/29/23 12:46 Prepared	07/01/23 15:58 07/01/23 15:58 07/01/23 15:58 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	06/29/23 12:46 06/29/23 12:46 06/29/23 12:46 Prepared 06/29/23 12:46	07/01/23 15:58 07/01/23 15:58 07/01/23 15:58 Analyzed 07/01/23 15:58	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	06/29/23 12:46 06/29/23 12:46 06/29/23 12:46 Prepared 06/29/23 12:46	07/01/23 15:58 07/01/23 15:58 07/01/23 15:58 Analyzed 07/01/23 15:58	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: FS07 Lab Sample ID: 890-4873-12

Date Collected: 06/27/23 15:25 Date Received: 06/28/23 09:16

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		06/29/23 14:56	06/30/23 10:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/29/23 14:56	06/30/23 10:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/29/23 14:56	06/30/23 10:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/29/23 14:56	06/30/23 10:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/29/23 14:56	06/30/23 10:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/29/23 14:56	06/30/23 10:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			06/29/23 14:56	06/30/23 10:01	

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Matrix: Solid

o-Terphenyl

Client Sample Results

Client: Ensolum Job ID: 890-4873-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: FS07

Date Collected: 06/27/23 15:25

Lab Sam

Lab Sample ID: 890-4873-12

06/29/23 12:46 07/01/23 16:20

Matrix: Solid

Date Received: 06/28/23 09:16
Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130	06/29/23 14:56	06/30/23 10:01	1

Method: TAL SOP Total BTEX - Tot	al BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/30/23 15:25	1

Method: SW846 8015 NM - Diesel	Range Organi	ics (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			07/03/23 11:15	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/29/23 12:46	07/01/23 16:20	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/29/23 12:46	07/01/23 16:20	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/29/23 12:46	07/01/23 16:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			06/29/23 12:46	07/01/23 16:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	108	4.96	mg/Kg			06/30/23 16:21	1

70 - 130

112

Surrogate Summary

Client: Ensolum Job ID: 890-4873-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4857-A-6-C MS	Matrix Spike	104	101	
890-4857-A-6-D MSD	Matrix Spike Duplicate	142 S1+	98	
390-4873-1	SW01	110	108	
390-4873-2	SW02	152 S1+	95	
390-4873-3	SW03	147 S1+	100	
390-4873-4	SW04	109	108	
390-4873-5	SW05	108	105	
390-4873-6	FS01	98	108	
890-4873-7	FS02	103	106	
390-4873-8	FS03	101	104	
390-4873-9	FS04	97	107	
390-4873-10	FS05	107	106	
390-4873-11	FS06	98	104	
390-4873-12	FS07	98	109	
_CS 880-56630/1-A	Lab Control Sample	102	101	
_CSD 880-56630/2-A	Lab Control Sample Dup	107	93	
MB 880-56572/5-A	Method Blank	97	88	
VIB 880-56572/5-A	Method Blank	99	85	

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

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

Matrix: Solid Prep Type: Total/NA

				Percent Su
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4873-1	SW01	135 S1+	121	
890-4873-2	SW02	106	88	
890-4873-3	SW03	116	95	
890-4873-4	SW04	141 S1+	126	
890-4873-4 MS	SW04	128	100	
890-4873-4 MSD	SW04	118	92	
890-4873-5	SW05	121	106	
890-4873-6	FS01	148 S1+	130	
890-4873-7	FS02	139 S1+	115	
890-4873-8	FS03	131 S1+	112	
890-4873-9	FS04	132 S1+	111	
890-4873-10	FS05	132 S1+	116	
890-4873-11	FS06	116	99	
890-4873-12	FS07	126	112	
890-4875-A-2-H MS	Matrix Spike	125	98	
890-4875-A-2-I MSD	Matrix Spike Duplicate	108	85	
LCS 880-56603/2-A	Lab Control Sample	109	100	
LCS 880-56819/2-A	Lab Control Sample	85	73	
LCSD 880-56603/3-A	Lab Control Sample Dup	100	93	
LCSD 880-56819/3-A	Lab Control Sample Dup	90	82	
MB 880-56603/1-A	Method Blank	109	99	

OTPH = o-Terphenyl

Surrogate Summary

Client: Ensolum Job ID: 890-4873-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
MB 880-56819/1-A	Method Blank	137 S1+	124	

Δ

5

_

8

10

12

Client: Ensolum Job ID: 890-4873-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56572/5-A

Matrix: Solid

Analysis Batch: 56626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56572

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 10:49	06/29/23 16:56	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared
4-Bromofluorobenzene (Surr)	97		70 - 130	06/29/23 10:4
1,4-Difluorobenzene (Surr)	88		70 - 130	06/29/23 10:4

3 10:49 06/29/23 16:56 06/29/23 16:56 3 10:49

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

Analyzed

Prep Batch: 56630

Lab Sample ID: MB 880-56630/5-A

Matrix: Solid

Analysis Batch: 56626

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 03:44	•
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 03:44	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 03:44	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 03:44	•
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 03:44	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 03:44	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/29/2	23 14:56	06/30/23 03:44	1
1,4-Difluorobenzene (Surr)	85		70 - 130	06/29/2	23 14:56	06/30/23 03:44	1

Lab Sample ID: LCS 880-56630/1-A

Matrix: Solid

Analysis Batch: 56626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 56630

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1315	*+	mg/Kg		131	70 - 130	
Toluene	0.100	0.1282		mg/Kg		128	70 - 130	
Ethylbenzene	0.100	0.1065		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene	0.200	0.2196		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1065		mg/Kg		107	70 - 130	

LCS LCS

Surrogate	%Recovery Qua	lifier Limits	
4-Bromofluorobenzene (Surr)	102	70 - 130	
1,4-Difluorobenzene (Surr)	101	70 - 130	

Lab Sample ID: LCSD 880-56630/2-A

Matrix: Solid

Analysis Batch: 56626

Client Sample ID: La	b Control Sample Dup
	Prep Type: Total/NA

Prep Batch: 56630

Spike LCSD LCSD RPD %Rec Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Benzene 0.100 0.1000 mg/Kg 100 70 - 130 27

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Dil Fac

QC Sample Results

Client: Ensolum Job ID: 890-4873-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

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

Lab Sample ID: LCSD 880-56630/2-A

Matrix: Solid

Analysis Batch: 56626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 56630

Client Sample ID: Matrix Spike

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1123		mg/Kg		112	70 - 130	13	35
Ethylbenzene	0.100	0.09949		mg/Kg		99	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2142		mg/Kg		107	70 - 130	2	35
o-Xylene	0.100	0.1034		mg/Kg		103	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	93	70 - 130

Lab Sample ID: 890-4857-A-6-C MS

Matrix: Solid				Prep Type: Total/NA
Analysis Batch: 56626				Prep Batch: 56630
	Sample Sample	Spike	MS MS	%Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00202 U *+ 0.0996 0.1157 70 - 130 mg/Kg 116 Toluene <0.00202 U 0.0996 0.1146 70 - 130 mg/Kg 115 Ethylbenzene <0.00202 U 0.0996 0.09322 70 - 130 mg/Kg 94 <0.00404 U F1 0.199 0.1900 95 70 - 130 m-Xylene & p-Xylene mg/Kg o-Xylene <0.00202 U 0.0996 0.09099 mg/Kg 70 - 130

MS MS

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

Lab Sample ID: 890-4857-A-6-D MSD

Matrix: Solid Analysis Batch: 56626 Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 56630

7 maryoro Batom 00020											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U *+	0.0994	0.1009		mg/Kg		101	70 - 130	14	35
Toluene	<0.00202	U	0.0994	0.1192		mg/Kg		120	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.0994	0.1170		mg/Kg		118	70 - 130	23	35
m-Xylene & p-Xylene	<0.00404	U F1	0.199	0.2606	F1	mg/Kg		131	70 - 130	31	35
o-Xylene	<0.00202	U	0.0994	0.1265		mg/Kg		127	70 - 130	33	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	98		70 - 130		

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

Lab Sample ID: MB 880-56603/1-A

Matrix: Solid

Analysis Batch: 56748

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

Prep Batch: 56603

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		06/29/23 12:46	07/01/23 10:00	1
(GRO)-C6-C10								

o-Terphenyl

Client: Ensolum Job ID: 890-4873-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

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

100

Lab Sample ID: MB 880-56603/1-A

Matrix: Solid

Analysis Batch: 56748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56603

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/29/23 12:46	07/01/23 10:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/29/23 12:46	07/01/23 10:00	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			06/29/23 12:46	07/01/23 10:00	1
o-Terphenyl	99		70 - 130			06/29/23 12:46	07/01/23 10:00	1

Lab Sample ID: LCS 880-56	6603/2-A						Client	Sample	ID: Lab Cont	rol Sample
Matrix: Solid									Prep Type	e: Total/NA
Analysis Batch: 56748									Prep Ba	tch: 56603
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	1041		mg/Kg		104	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over			1000	1029		mg/Kg		103	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	109		70 - 130							

70 - 130

Lab Sample ID: LCSD 880-56603/3-A	b Sample ID: LCSD 880-56603/3-A					ent Sample ID: Lab Control Sample Dup					
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 56748							Prep	Batch:	56603		
	Spike	LCSD	LCSD				%Rec		RPD		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130	0	20		
Diesel Range Organics (Over	1000	1037		mg/Kg		104	70 - 130	1	20		
C10-C28)											
LCSD LCSD)										

1 Chlorocators 100 70, 120	Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane 100 70 - 130	1-Chlorooctane	100		70 - 130
o-Terphenyl 93 70 - 130	o-Terphenyl	93		70 - 130

Matrix: Solid Prep Type: Total/NA Analysis Batch: 56748 Prep Batch: 56603 MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <49.9 U F2 1000 1250 122 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 <49.9 UF1 1000 1342 F1 131 70 - 130 Diesel Range Organics (Over mg/Kg C10-C28) MS MS Surrogate %Recovery Qualifier Limits

1-Chlorooctane 128 70 - 130 o-Terphenyl 100 70 - 130

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Client Sample ID: SW04

Lab Sample ID: 890-4873-4 MS

QC Sample Results

Client: Ensolum Job ID: 890-4873-1 SDG: 03C1558244 Project/Site: Poker Lake Unit 224

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

Lab Sample ID: 890-4873-4 MSD

Matrix: Solid

Analysis Batch: 56748

Client	Sample	ID:	SWO	4
Pr	an Tyna	To	tal/N	Δ

Prep Batch: 56603 20

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U F2	1000	971.2	F2	mg/Kg		94	70 - 130	25	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U F1	1000	1235		mg/Kg		120	70 - 130	8	20
C10-C28)											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	92		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56819

Lab Sample ID: MB 880-56819/1-A Matrix: Solid

Analysis Batch: 56814

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/03/23 08:00	07/03/23 08:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/03/23 08:00	07/03/23 08:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/03/23 08:00	07/03/23 08:16	1
C	Oll Range Organics (Over C28-C36)	Oll Range Organics (Over C28-C36) <50.0	Oll Range Organics (Over C28-C36) <50.0 U	Oll Range Organics (Over C28-C36) <50.0 U 50.0	Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg	Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg	Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/03/23 08:00	Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/03/23 08:00 07/03/23 08:16

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130	07/03/23 08:00	07/03/23 08:16	1
o-Terphenyl	124		70 - 130	07/03/23 08:00	07/03/23 08:16	1

Lab Sample ID: LCS 880-56819/2-A

Matrix: Solid

Analysis Batch: 56814

Prep Type: Total/NA

Prep Batch: 56819

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	901.2		mg/Kg		90	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	824.2		mg/Kg		82	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	73		70 - 130

Lab Sample ID: LCSD 880-56819/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 56814

Thom: Jumpio IDI Lub	Toma or Tumpio Dup
	Prep Type: Total/NA
	Down Databa F0040

Prep Batch: 56819

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	875.3		mg/Kg		88	70 - 130	3	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	841.2		mg/Kg		84	70 - 130	2	20	
C10-C28)										

Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1

SDG: 03C1558244

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

LCSD LCSD

Lab Sample ID: LCSD 880-56819/3-A

Lab Sample ID: 890-4875-A-2-I MSD

Matrix: Solid

Client: Ensolum

Analysis Batch: 56814

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56819

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 890-4875-A-2-H MS Client Sample ID: Matrix Spike

Analysis Batch: 56814

Matrix: Solid Prep Type: Total/NA

Prep Batch: 56819

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1010		mg/Kg		99	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	1353	F1	mg/Kg		131	70 - 130	
	MS	MS								

Surrogate %Recovery Qualifier Limits 125 70 - 130 1-Chlorooctane 98 70 - 130 o-Terphenyl

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 56819

Sample Sample Spike MSD MSD RPD Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics <50.0 U 997 886.9 mg/Kg 87 70 - 130 13 20 (GRO)-C6-C10 <50.0 U F1 Diesel Range Organics (Over 997 1171 mg/Kg 113 70 - 130 14 20

C10-C28)

Matrix: Solid

Analysis Batch: 56814

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 108 o-Terphenyl 85 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56551/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 56693

мв мв Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 06/30/23 14:37

Lab Sample ID: LCS 880-56551/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 56693

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	245.5		mg/Kg	_	98	90 - 110	

QC Sample Results

Job ID: 890-4873-1 Client: Ensolum Project/Site: Poker Lake Unit 224

SDG: 03C1558244

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-56551/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 56693

Spike LCSD LCSD %Rec RPD %Rec Analyte Added Result Qualifier Unit D Limits RPD Limit Chloride 250 245.4 mg/Kg 98 90 - 110 20

Lab Sample ID: 890-4873-1 MS Client Sample ID: SW01 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 56693

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 724 F1 252 942.7 F1 mg/Kg 87 90 - 110

Lab Sample ID: 890-4873-1 MSD Client Sample ID: SW01 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 56693

MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 724 F1 252 942.8 F1 87 90 - 110 mg/Kg

Lab Sample ID: 890-4873-11 MS **Client Sample ID: FS06 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 56693

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Qualifier Unit %Rec Result Limits 1260 Chloride 2060 3345 102 90 - 110 mg/Kg

Lab Sample ID: 890-4873-11 MSD

Matrix: Solid

Analysis Batch: 56693

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1260 Chloride 2060 3347 mg/Kg 102 90 - 110 0 20

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Client Sample ID: FS06

Prep Type: Soluble

Client: Ensolum

Project/Site: Poker Lake Unit 224

SDG: 03C1558244

GC VOA

Prep Batch: 56572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56572/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 56626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Total/NA	Solid	8021B	56630
890-4873-2	SW02	Total/NA	Solid	8021B	56630
890-4873-3	SW03	Total/NA	Solid	8021B	56630
890-4873-4	SW04	Total/NA	Solid	8021B	56630
890-4873-5	SW05	Total/NA	Solid	8021B	56630
890-4873-6	FS01	Total/NA	Solid	8021B	56630
890-4873-7	FS02	Total/NA	Solid	8021B	56630
890-4873-8	FS03	Total/NA	Solid	8021B	56630
890-4873-9	FS04	Total/NA	Solid	8021B	56630
890-4873-10	FS05	Total/NA	Solid	8021B	56630
890-4873-11	FS06	Total/NA	Solid	8021B	56630
890-4873-12	FS07	Total/NA	Solid	8021B	56630
MB 880-56572/5-A	Method Blank	Total/NA	Solid	8021B	56572
MB 880-56630/5-A	Method Blank	Total/NA	Solid	8021B	56630
LCS 880-56630/1-A	Lab Control Sample	Total/NA	Solid	8021B	56630
LCSD 880-56630/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56630
890-4857-A-6-C MS	Matrix Spike	Total/NA	Solid	8021B	56630
890-4857-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56630

Prep Batch: 56630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Total/NA	Solid	5035	
890-4873-2	SW02	Total/NA	Solid	5035	
890-4873-3	SW03	Total/NA	Solid	5035	
890-4873-4	SW04	Total/NA	Solid	5035	
890-4873-5	SW05	Total/NA	Solid	5035	
890-4873-6	FS01	Total/NA	Solid	5035	
890-4873-7	FS02	Total/NA	Solid	5035	
890-4873-8	FS03	Total/NA	Solid	5035	
890-4873-9	FS04	Total/NA	Solid	5035	
890-4873-10	FS05	Total/NA	Solid	5035	
890-4873-11	FS06	Total/NA	Solid	5035	
890-4873-12	FS07	Total/NA	Solid	5035	
MB 880-56630/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56630/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56630/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4857-A-6-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4857-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 56716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Total/NA	Solid	Total BTEX	
890-4873-2	SW02	Total/NA	Solid	Total BTEX	
890-4873-3	SW03	Total/NA	Solid	Total BTEX	
890-4873-4	SW04	Total/NA	Solid	Total BTEX	
890-4873-5	SW05	Total/NA	Solid	Total BTEX	
890-4873-6	FS01	Total/NA	Solid	Total BTEX	

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Client: Ensolum Job ID: 890-4873-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

GC VOA (Continued)

Analysis Batch: 56716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-7	FS02	Total/NA	Solid	Total BTEX	
890-4873-8	FS03	Total/NA	Solid	Total BTEX	
890-4873-9	FS04	Total/NA	Solid	Total BTEX	
890-4873-10	FS05	Total/NA	Solid	Total BTEX	
890-4873-11	FS06	Total/NA	Solid	Total BTEX	
890-4873-12	FS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 56603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-4	SW04	Total/NA	Solid	8015NM Prep	
890-4873-5	SW05	Total/NA	Solid	8015NM Prep	
890-4873-6	FS01	Total/NA	Solid	8015NM Prep	
890-4873-7	FS02	Total/NA	Solid	8015NM Prep	
890-4873-8	FS03	Total/NA	Solid	8015NM Prep	
890-4873-9	FS04	Total/NA	Solid	8015NM Prep	
890-4873-10	FS05	Total/NA	Solid	8015NM Prep	
890-4873-11	FS06	Total/NA	Solid	8015NM Prep	
890-4873-12	FS07	Total/NA	Solid	8015NM Prep	
MB 880-56603/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56603/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4873-4 MS	SW04	Total/NA	Solid	8015NM Prep	
890-4873-4 MSD	SW04	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-4	SW04	Total/NA	Solid	8015B NM	56603
890-4873-5	SW05	Total/NA	Solid	8015B NM	56603
890-4873-6	FS01	Total/NA	Solid	8015B NM	56603
890-4873-7	FS02	Total/NA	Solid	8015B NM	56603
890-4873-8	FS03	Total/NA	Solid	8015B NM	56603
890-4873-9	FS04	Total/NA	Solid	8015B NM	56603
890-4873-10	FS05	Total/NA	Solid	8015B NM	56603
890-4873-11	FS06	Total/NA	Solid	8015B NM	56603
890-4873-12	FS07	Total/NA	Solid	8015B NM	56603
MB 880-56603/1-A	Method Blank	Total/NA	Solid	8015B NM	56603
LCS 880-56603/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56603
LCSD 880-56603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56603
890-4873-4 MS	SW04	Total/NA	Solid	8015B NM	56603
890-4873-4 MSD	SW04	Total/NA	Solid	8015B NM	56603

Analysis Batch: 56814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Total/NA	Solid	8015B NM	56819
890-4873-2	SW02	Total/NA	Solid	8015B NM	56819
890-4873-3	SW03	Total/NA	Solid	8015B NM	56819
MB 880-56819/1-A	Method Blank	Total/NA	Solid	8015B NM	56819
LCS 880-56819/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56819
LCSD 880-56819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56819

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Client: Ensolum Job ID: 890-4873-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

GC Semi VOA (Continued)

Analysis Batch: 56814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4875-A-2-H MS	Matrix Spike	Total/NA	Solid	8015B NM	56819
890-4875-A-2-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56819

Prep Batch: 56819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Total/NA	Solid	8015NM Prep	
890-4873-2	SW02	Total/NA	Solid	8015NM Prep	
890-4873-3	SW03	Total/NA	Solid	8015NM Prep	
MB 880-56819/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56819/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4875-A-2-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4875-A-2-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Total/NA	Solid	8015 NM	
890-4873-2	SW02	Total/NA	Solid	8015 NM	
890-4873-3	SW03	Total/NA	Solid	8015 NM	
890-4873-4	SW04	Total/NA	Solid	8015 NM	
890-4873-5	SW05	Total/NA	Solid	8015 NM	
890-4873-6	FS01	Total/NA	Solid	8015 NM	
890-4873-7	FS02	Total/NA	Solid	8015 NM	
890-4873-8	FS03	Total/NA	Solid	8015 NM	
890-4873-9	FS04	Total/NA	Solid	8015 NM	
890-4873-10	FS05	Total/NA	Solid	8015 NM	
890-4873-11	FS06	Total/NA	Solid	8015 NM	
890-4873-12	FS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Soluble	Solid	DI Leach	
890-4873-2	SW02	Soluble	Solid	DI Leach	
890-4873-3	SW03	Soluble	Solid	DI Leach	
890-4873-4	SW04	Soluble	Solid	DI Leach	
890-4873-5	SW05	Soluble	Solid	DI Leach	
890-4873-6	FS01	Soluble	Solid	DI Leach	
890-4873-7	FS02	Soluble	Solid	DI Leach	
890-4873-8	FS03	Soluble	Solid	DI Leach	
890-4873-9	FS04	Soluble	Solid	DI Leach	
890-4873-10	FS05	Soluble	Solid	DI Leach	
890-4873-11	FS06	Soluble	Solid	DI Leach	
890-4873-12	FS07	Soluble	Solid	DI Leach	
MB 880-56551/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56551/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56551/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4873-1 MS	SW01	Soluble	Solid	DI Leach	
890-4873-1 MSD	SW01	Soluble	Solid	DI Leach	
890-4873-11 MS	FS06	Soluble	Solid	DI Leach	

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Client: Ensolum Job ID: 890-4873-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

HPLC/IC (Continued)

Leach Batch: 56551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-11 MSD	FS06	Soluble	Solid	DI Leach	

Analysis Batch: 56693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Soluble	Solid	300.0	56551
890-4873-2	SW02	Soluble	Solid	300.0	56551
890-4873-3	SW03	Soluble	Solid	300.0	56551
890-4873-4	SW04	Soluble	Solid	300.0	56551
890-4873-5	SW05	Soluble	Solid	300.0	56551
890-4873-6	FS01	Soluble	Solid	300.0	56551
890-4873-7	FS02	Soluble	Solid	300.0	56551
890-4873-8	FS03	Soluble	Solid	300.0	56551
890-4873-9	FS04	Soluble	Solid	300.0	56551
890-4873-10	FS05	Soluble	Solid	300.0	56551
890-4873-11	FS06	Soluble	Solid	300.0	56551
890-4873-12	FS07	Soluble	Solid	300.0	56551
MB 880-56551/1-A	Method Blank	Soluble	Solid	300.0	56551
LCS 880-56551/2-A	Lab Control Sample	Soluble	Solid	300.0	56551
LCSD 880-56551/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56551
890-4873-1 MS	SW01	Soluble	Solid	300.0	56551
890-4873-1 MSD	SW01	Soluble	Solid	300.0	56551
890-4873-11 MS	FS06	Soluble	Solid	300.0	56551
890-4873-11 MSD	FS06	Soluble	Solid	300.0	56551

Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: SW01 Lab Sample ID: 890-4873-1 Date Collected: 06/27/23 10:00

Matrix: Solid

Date Received: 06/28/23 09:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 05:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 16:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56819	07/03/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/03/23 12:50	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		1			56693	06/30/23 14:53	CH	EET MID

Client Sample ID: SW02 Lab Sample ID: 890-4873-2

Date Collected: 06/27/23 14:00 Matrix: Solid

Date Received: 06/28/23 09:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 05:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 16:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56819	07/03/23 08:20	AM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/03/23 13:12	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56551	06/29/23 09:19	KS	EET MIC
Soluble	Analysis	300.0		1			56693	06/30/23 15:09	CH	EET MID

Client Sample ID: SW03 Lab Sample ID: 890-4873-3 Date Collected: 06/27/23 14:05 **Matrix: Solid**

Date Received: 06/28/23 09:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 05:49	SM	EET MIC
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 16:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56819	07/03/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/03/23 13:35	SM	EET MIC
Soluble	Leach	DI Leach			5.05 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		1			56693	06/30/23 15:14	CH	EET MID

Client Sample ID: SW04 Lab Sample ID: 890-4873-4

Date Collected: 06/27/23 15:10 Date Received: 06/28/23 09:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 06:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID

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Matrix: Solid

Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: SW04 Lab Sample ID: 890-4873-4

Date Collected: 06/27/23 15:10 Matrix: Solid Date Received: 06/28/23 09:16

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep	Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total	/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total	/NA	Prep	8015NM Prep			10.02 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total	/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 12:35	SM	EET MID
Solu	ble	Leach	DI Leach			5.05 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Solul	ble	Analysis	300.0		1			56693	06/30/23 15:19	CH	EET MID

Client Sample ID: SW05 Lab Sample ID: 890-4873-5

Date Collected: 06/27/23 15:15 **Matrix: Solid**

Date Received: 06/28/23 09:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 06:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 13:43	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		1			56693	06/30/23 15:24	CH	EET MID

Client Sample ID: FS01 Lab Sample ID: 890-4873-6

Date Collected: 06/27/23 10:10 Date Received: 06/28/23 09:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 06:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 14:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		5			56693	06/30/23 15:40	CH	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-4873-7

Date Collected: 06/27/23 10:15 Date Received: 06/28/23 09:16

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 07:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	56603 56748	06/29/23 12:46 07/01/23 14:28	SM SM	EET MID EET MID

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Matrix: Solid

Matrix: Solid

Client: Ensolum SDG: 03C1558244 Project/Site: Poker Lake Unit 224

Client Sample ID: FS02

Date Collected: 06/27/23 10:15 Date Received: 06/28/23 09:16 Lab Sample ID: 890-4873-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		10			56693	06/30/23 15:45	CH	EET MID

Client Sample ID: FS03 Lab Sample ID: 890-4873-8

Date Collected: 06/27/23 13:05 Date Received: 06/28/23 09:16 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 08:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 14:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		10			56693	06/30/23 15:50	CH	EET MID

Lab Sample ID: 890-4873-9 **Client Sample ID: FS04**

Date Collected: 06/27/23 13:10

Matrix: Solid

Matrix: Solid

Date Received: 06/28/23 09:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 08:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 15:13	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		5			56693	06/30/23 15:55	CH	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-4873-10

Date Collected: 06/27/23 14:10 Date Received: 06/28/23 09:16

Soluble

	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	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 09:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 15:35	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56551	06/29/23 09:19	KS	EET MID

56693

06/30/23 16:01

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EET MID

Analysis

300.0

Client: Ensolum Job ID: 890-4873-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: FS06 Lab Sample ID: 890-4873-11

Date Collected: 06/27/23 15:20 Matrix: Solid Date Received: 06/28/23 09:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 09:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 15:58	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		5			56693	06/30/23 16:06	CH	EET MID

Client Sample ID: FS07 Lab Sample ID: 890-4873-12 Date Collected: 06/27/23 15:25 Matrix: Solid

Date Received: 06/28/23 09:16

	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	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 10:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 16:20	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		1			56693	06/30/23 16:21	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4873-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-23-26	06-30-24
The following analytes the agency does not of	. ,	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

9

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114

Method Summary

Client: Ensolum Job ID: 890-4873-1 Project/Site: Poker Lake Unit 224

SDG: 03C1558244

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: Poker Lake Unit 224

Job ID: 890-4873-1

SDG: 03C1558244

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-4873-1	SW01	Solid	06/27/23 10:00	06/28/23 09:16	
890-4873-2	SW02	Solid	06/27/23 14:00	06/28/23 09:16	
890-4873-3	SW03	Solid	06/27/23 14:05	06/28/23 09:16	
890-4873-4	SW04	Solid	06/27/23 15:10	06/28/23 09:16	
890-4873-5	SW05	Solid	06/27/23 15:15	06/28/23 09:16	
890-4873-6	FS01	Solid	06/27/23 10:10	06/28/23 09:16	
890-4873-7	FS02	Solid	06/27/23 10:15	06/28/23 09:16	
890-4873-8	FS03	Solid	06/27/23 13:05	06/28/23 09:16	
890-4873-9	FS04	Solid	06/27/23 13:10	06/28/23 09:16	
890-4873-10	FS05	Solid	06/27/23 14:10	06/28/23 09:16	4
890-4873-11	FS06	Solid	06/27/23 15:20	06/28/23 09:16	
890-4873-12	FS07	Solid	06/27/23 15:25	06/28/23 09:16	4

Circle Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

1508 A

F502

1503

5004

50.00 Suoz SWO

SOUS

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service. Eurofins Xenco will be liable only for the cost of samples a Eurofins Xenco. A minimum charge of \$85.00 will be applied to eac itice: Signature of this document and relinquishment of samples co

Relinquished by: (Signature)

Received by: (Signature)

1.28.234

Revised Date: 08/25/2020 Rev. 2020.2



Xenco **Environment Testing**

Chain of Custody

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

Work Order No:

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Page

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Work Order Comments

Bill to: (if different) Company Name:	rent)	XTO Energy	Carrett Green XTO Energy	2			Program: UST/P	ST	Work Order Comments] PRP∏ Brownfields ☐ R	elds RRC	C ☐ Superfund ☐
City, State ZIP: Carisoad, No	Pn⊚Exx	Cariso	ad, Niv	Carisbad, NM 88220			Delivera	Deliverables: EDD ADaPT	ADaPT	Other:	Other:
Turn Around						ANALYSIS REQUEST	REQUEST			Preservativ	ative Codes
Routine Rush	Pres.								z	None: NO	
Due Date:									0	Cool: Cool	MeOH: Me
TAT starts the day received by	Ъу									HCL: HC	HNO3: HN
the lab, if received by 4:30pm									I	H ₂ S0 ₄ : H ₂	NaOH: Na
Wet Ice: (Yes) No	eter	0)							I	H ₃ PO ₄ : HP	
2	am	000.							Z	NaHSO4: NABIS	SIS
Factor:	Par	A: 30							z	Na ₂ S ₂ O ₃ : NaSO ₃	ŏ
ding		(EP		_		890-4873 Chain of Custody	of Custody		Z	Zn Acetate+NaOH	laOH: Zn
Temperature:		DES	15)	021)		-	-	-		laOH+Ascort	NaOH+Ascorbic Acid: SAPC
	# 25	ORI	(80	K (8		_	_				
d Depth		CHL	ТРН	BTE						adilibe	Sample Comments
1000 0-4 0	-	_)						=	Incident ID:	
200 0-4	-									nAPP	nAPP2310050120
205 0-4	1		-		_						
510 0-4	1								0	Cost Center:	
315 0-4	1									113	138121001
1010									Þ	AFE:	
1015 4	1										
105 4	1										
110 4	/										
210 4	-		_	-	_						
BRCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	1 AI SE	Sb As	Ba Be	Ве Cd В Сd	cr o	Cr Co Cu Fe F Co Cu Pb Mn N	Pb Mg Mn Mo Ni K Mo Ni Se Ag TI U	MoNiK SeAg og TIU Ho	SiO ₂ Na 3: 1631 / 2	Sr Ti Sn U V 45.1/7470/7	U V Zn) /7471
stitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	n client com	npany to	Eurofins	Xenco,	its affili	es and subcontracto	rs. It assigns sta	ndard terms and co	onditions		
h project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	h sample si	ubmitted	to Euro	fins Xeno	co, but r	ot analyzed. These ter	ms will be enfor	ced unless previous	ly negotiated.		
pd by: (Signature)		Date/Time	Time		Reli	Relinquished by: (Signature)	nature)	Received t	Received by: (Signature)		Date/Time

PO#

Sampler's Name:

Connor Whitman

Project Location:

Project Number:

Project Name:

Poker Lake Unit 224

03C1558244

Phone:

303-887-2946 Carlsbad, NM 88220 3122 National Parks Hwy

City, State ZIP:

Address: Company Name: Project Manager:

Ben Belill

Ensolum

SAMPLE RECEIPT

mp Blank:

Yes

8

Samples Received Intact:

Yes No Yes No

Correction

Sample Custody Seals: Cooler Custody Seals:

Total Containers:

Sample Identification

Matrix

Date

6127 Sample Relinquished by: (Signature)

Received by (Signature)

-28-d3

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

eurofins: Kenco **Environment Testing**

Phone:

City, State ZIP:

Carlsbad, NM 88220 3122 National Parks Hwy

City, State ZIP:

Carlsbad, NM 88220 3104 E. Green St XTO Energy

Reporting: Level III 🔲 Level III 🔲 PST/UST 📗 TRRP 📗

Level IV

State of Project:

Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order Comments

Company Name: Bill to: (if different)

Garrett Green

ddress

Company Name: Project Manager:

Ensolum Ben Belill

Chain of Custody

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

									Dollings RDD	ADapt Other
Phone: 303	303-887-2946		Email: G	Email: Garrett.Green@ExxonMobil.com	@Exx	onMob	il.com		Deliverations, CDD [1]	
Project Name:	Poker Lake Unit 224	224	Turn Around	round				ANALYSIS RE	REQUEST	Preservative Codes
Project Number:	03C1558244	-	✓ Routine	Rush	Pres.					None: NO DI Water: H ₂ O
Project Location:			Due Date:							Cool: Cool MeOH: Me
Sampler's Name:	Connor Whitman		TAT starts the day received by	day received by						HCL: HC HNO3: HN
PO#			the lab, if received by 4:30pm	ved by 4:30pm	rs					H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No	nete	.0)				H₃PO₄: HP
Samples Received Intact	Yes No	Theriperneter ID:	7		ıran	3000				NaHSO4: NABIS
Cooler Custody Seals:	Yes No NA	Carection Factor:	or:		Pa	A: 3				Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	No N/A	Temberature Reading:	eading			(EP				Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature	perature:			DES	15)	021)		NaOH+Ascorbic Acid: SAPC
Sample Identification	cation Matrix	Date	Time	Depth Grab/	Grab/ # of	HLOR	PH (80	BTEX (B		Sample Comments
7306	5	6/27/23	320	0	-					Incident ID:
FS07	\$		325	0	~	\				nAPP2310050120
/							_			
	/									Cost Center:
										1138121001
			_							AFE:
				/						
				/						
					/	5	_			
						1	/			
Total 200.7 / 6010	200.8 / 6020:	8RC	RA 13PPM	Texas 11	Al Sb	As B	a Be	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb		Mg Mn Mo Ni K Se Ag SiO $_2$ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	Metal(s) to be analyze		TCLP / SPL	TCLP / SPLP 6010: 8RCRA	CRA	Sb As	Ba Be	se Cd Cr Co Cu Pb Mn Mo	Ni Se Ag TI U	Hg: 1631 / 245.1 / 7470 / 7471
lotice: Signature of this docur	ment and relinquishment of	samples constitut	es a valid purch	ase order from cl	ient com	pany to E	urofins	totice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors.	ors. It assigns standard terms and conditions	ions
f Eurofins Xenco. A minimum	n charge of \$85.00 will be ap	or samples and an oplied to each pro	ect and a charge	of \$5 for each s	ample su	bmitted	to Eurof	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	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.	gotlated.
										The second secon

Work Order No:

Page (1) 9 17

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4873-1 SDG Number: 03C1558244

List Source: Eurofins Carlsbad

Login Number: 4873 List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4873-1

SDG Number: 03C1558244

List Source: Eurofins Midland List Creation: 06/29/23 10:42 AM

Creator: Rodriguez, Leticia

Login Number: 4873

List Number: 2

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 8/2/2023 10:34:01 AM

JOB DESCRIPTION

Poker Lake Unit 224 SDG NUMBER 03C1558244

JOB NUMBER

890-4970-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 8/2/2023 10:34:01 AM

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

Client: Ensolum
Project/Site: Poker Lake Unit 224
Laboratory Job ID: 890-4970-1
SDG: 03C1558244

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Definitions/Glossary

Job ID: 890-4970-1 Client: Ensolum Project/Site: Poker Lake Unit 224

SDG: 03C1558244

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

MCL

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

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

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

EPA recommended "Maximum Contaminant Level"

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-4970-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Job ID: 890-4970-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4970-1

Receipt

The samples were received on 7/20/2023 9:22 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 5.8°C

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58520 recovered below the lower control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58520/33).

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 laboratory control sample (LCS) associated with preparation batch 880-58634 and analytical batch 880-58963 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS02A (890-4970-3) and (890-4969-A-3-D). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-58217 and analytical batch 880-58468 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.

Job ID: 890-4970-1

Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: SW06 Lab Sample ID: 890-4970-1 Date Collected: 07/19/23 10:20 Matrix: Solid

Date Received: 07/20/23 09:22

Sample	Depth:	0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/26/23 09:29	07/26/23 15:14	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/26/23 09:29	07/26/23 15:14	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/26/23 09:29	07/26/23 15:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/26/23 09:29	07/26/23 15:14	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/26/23 09:29	07/26/23 15:14	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/26/23 09:29	07/26/23 15:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			07/26/23 09:29	07/26/23 15:14	1
1,4-Difluorobenzene (Surr)	108		70 - 130			07/26/23 09:29	07/26/23 15:14	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			07/27/23 07:33	1
				0 0				
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (G	GC)	Unit	D	Prepared	Analyzed	Dil Fac
			•	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 08/02/23 10:27	Dil Fac
Analyte	Result 65.4	Qualifier	RL 50.4		<u>D</u>	Prepared		
Analyte Total TPH	Result 65.4 sel Range Orga	Qualifier	RL 50.4		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 65.4 sel Range Orga	Qualifier nics (DRO)	RL 50.4 (GC)	mg/Kg	_ =		08/02/23 10:27	Dil Fac Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 65.4 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 50.4 (GC)	mg/Kg	_ =	Prepared	08/02/23 10:27 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 65.4 sel Range Orga Result 65.4	Qualifier nics (DRO) Qualifier U *-	RL 50.4 (GC) RL 50.4	mg/Kg Unit mg/Kg	_ =	Prepared 07/27/23 08:51	08/02/23 10:27 Analyzed 08/01/23 12:14	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 65.4 sel Range Orga Result 65.4 <50.4	Qualifier nics (DRO) Qualifier U *-	RL 50.4 (GC) RL 50.4 50.4	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 07/27/23 08:51 07/27/23 08:51	08/02/23 10:27 Analyzed 08/01/23 12:14 08/01/23 12:14	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 65.4 sel Range Orga Result 65.4 <50.4	Qualifier nics (DRO) Qualifier U *-	RL 50.4 (GC) RL 50.4 50.4	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 07/27/23 08:51 07/27/23 08:51 07/27/23 08:51	08/02/23 10:27 Analyzed 08/01/23 12:14 08/01/23 12:14	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier nics (DRO) Qualifier U *-	RL 50.4 (GC) RL 50.4 50.4 Limits	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 07/27/23 08:51 07/27/23 08:51 07/27/23 08:51 Prepared	08/02/23 10:27 Analyzed 08/01/23 12:14 08/01/23 12:14 08/01/23 12:14 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier nics (DRO) Qualifier U *- U Qualifier	RL 50.4 (GC) RL 50.4 50.4 50.4 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 07/27/23 08:51 07/27/23 08:51 07/27/23 08:51 Prepared 07/27/23 08:51	08/02/23 10:27 Analyzed 08/01/23 12:14 08/01/23 12:14 08/01/23 12:14 Analyzed 08/01/23 12:14	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier nics (DRO) Qualifier U *- U Qualifier	RL 50.4 (GC) RL 50.4 50.4 50.4 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 07/27/23 08:51 07/27/23 08:51 07/27/23 08:51 Prepared 07/27/23 08:51	08/02/23 10:27 Analyzed 08/01/23 12:14 08/01/23 12:14 08/01/23 12:14 Analyzed 08/01/23 12:14	1 Dil Fac 1 1 1 1 Dil Fac 1

Client Sample ID: SW07

Date Collected: 07/19/23 12:35

Date Received: 07/20/23 09:22

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/26/23 09:29	07/26/23 16:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/26/23 09:29	07/26/23 16:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/26/23 09:29	07/26/23 16:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/26/23 09:29	07/26/23 16:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/26/23 09:29	07/26/23 16:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/26/23 09:29	07/26/23 16:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			07/26/23 09:29	07/26/23 16:38	

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Matrix: Solid

Lab Sample ID: 890-4970-2

Client: Ensolum Job ID: 890-4970-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: SW07 Lab Sample ID: 890-4970-2 Matrix: Solid

Date Collected: 07/19/23 12:35 Date Received: 07/20/23 09:22

Sample Depth: 0 - 4

(GC) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	101	70 - 130	07/26/23 09:29	07/26/23 16:38	1

Method: TAL	SOP Total BTEX	- Total BTEX	Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	ma/Ka			07/27/23 07:33	1

ı				
ı	Mathad. CIMO 4C OO4E NIM	Discal Dance	Oursias /F	ADOL (CC)
1	Method: SW846 8015 NM -	Diesei Kande	Organics (L	JKULIGGE

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			08/02/23 10:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/27/23 08:51	08/01/23 12:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0	mg/Kg		07/27/23 08:51	08/01/23 12:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/27/23 08:51	08/01/23 12:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85	70 - 130	07/27/23 08:51	08/01/23 12:36	1
o-Terphenyl	93	70 - 130	07/27/23 08:51	08/01/23 12:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		4.98	mg/Kg			07/25/23 12:47	1

Client Sample ID: FS02A Lab Sample ID: 890-4970-3

Date Collected: 07/19/23 13:15 Date Received: 07/20/23 09:22

Sample Depth: 5

Method:	· SW846 8021	B - Volatile	Organic Co	mpounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 16:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 16:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 16:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/26/23 09:29	07/26/23 16:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 16:59	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/26/23 09:29	07/26/23 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			07/26/23 09:29	07/26/23 16:59	1
1 1 Differenchemanne (Crem)	44.4		70 400			07/06/02 00:00	07/06/00 46:50	

4-Bromofluorobenzene (Surr)	100	70 - 130	07/26/23 09:29	07/26/23 16:59	1
1,4-Difluorobenzene (Surr)	114	70 - 130	07/26/23 09:29	07/26/23 16:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg		_	07/27/23 07:33	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	265		49.6	mg/Kg			08/02/23 10:27	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4970-3

Job ID: 890-4970-1

Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: FS02A

Date Collected: 07/19/23 13:15 Date Received: 07/20/23 09:22

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		07/27/23 08:51	08/01/23 12:58	1
Diesel Range Organics (Over C10-C28)	265	*_	49.6	mg/Kg		07/27/23 08:51	08/01/23 12:58	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/27/23 08:51	08/01/23 12:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	167	S1+	70 - 130			07/27/23 08:51	08/01/23 12:58	1
o-Terphenyl	177	S1+	70 - 130			07/27/23 08:51	08/01/23 12:58	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS03A Lab Sample ID: 890-4970-4 Date Collected: 07/19/23 13:25 Matrix: Solid

Date Received: 07/20/23 09:22

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/26/23 09:29	07/26/23 17:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/26/23 09:29	07/26/23 17:20	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		07/26/23 09:29	07/26/23 17:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/26/23 09:29	07/26/23 17:20	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		07/26/23 09:29	07/26/23 17:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/26/23 09:29	07/26/23 17:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			07/26/23 09:29	07/26/23 17:20	1
1,4-Difluorobenzene (Surr)	113		70 - 130			07/26/23 09:29	07/26/23 17:20	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	<0.00398						07/07/00 07 00	
Total BTEX	<0.00396	U	0.00398	mg/Kg			07/27/23 07:33	1
• -				mg/Kg			07/27/23 07:33	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (0	GC)			Programmed.		
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result		GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (0	GC)		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte	Result 215	ics (DRO) (0 Qualifier	RL 49.5	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result 215 sel Range Orga	ics (DRO) (0 Qualifier	RL 49.5	Unit	<u>D</u>	Prepared Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result 215 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.5 (GC)	Unit mg/Kg			Analyzed 08/02/23 10:27	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result 215 sel Range Orga Result	Qualifier nics (DRO) Qualifier Qualifier U	RL 49.5 (GC)	Unit mg/Kg		Prepared	Analyzed 08/02/23 10:27	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result 215 sel Range Orga Result <49.5	Qualifier nics (DRO) Qualifier Qualifier U	GC) RL 49.5 (GC) RL 49.5	Unit mg/Kg Unit mg/Kg		Prepared 07/27/23 08:51	Analyzed 08/02/23 10:27 Analyzed 08/01/23 13:20	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 215 sel Range Orga Result <49.5	nics (DRO) (Qualifier nics (DRO) Qualifier U	GC) RL 49.5 (GC) RL 49.5	Unit mg/Kg Unit mg/Kg		Prepared 07/27/23 08:51	Analyzed 08/02/23 10:27 Analyzed 08/01/23 13:20	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 215 sel Range Orga Result <49.5 215	nics (DRO) (Qualifier nics (DRO) Qualifier U *-	GC) RL 49.5 (GC) RL 49.5 49.5	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/27/23 08:51 07/27/23 08:51	Analyzed 08/02/23 10:27 Analyzed 08/01/23 13:20 08/01/23 13:20	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result 215 sel Range Orga Result <49.5 215 <49.5	nics (DRO) (Qualifier nics (DRO) Qualifier U *-	GC) RL 49.5 (GC) RL 49.5 49.5 49.5	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/27/23 08:51 07/27/23 08:51 07/27/23 08:51	Analyzed 08/02/23 10:27 Analyzed 08/01/23 13:20 08/01/23 13:20 08/01/23 13:20	Dil Fac Dil Fac 1 1 1

Client Sample Results

Client: Ensolum

Project/Site: Poker Lake Unit 224

SDG: 03C1558244

Client Sample ID: FS03A Lab Sample ID: 890-4970-4

Date Collected: 07/19/23 13:25

Matrix: Solid

Date Received: 07/20/23 09:22

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	1500	25.1	ma/Ka			07/25/23 12:56	5			

5

8

10

4.0

13

12

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Job ID: 890-4970-1 Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-31221-A-1-A MS	Matrix Spike	109	102	
880-31221-A-1-B MSD	Matrix Spike Duplicate	110	100	
890-4970-1	SW06	103	108	
890-4970-2	SW07	103	101	
890-4970-3	FS02A	100	114	
890-4970-4	FS03A	99	113	
LCS 880-58524/1-A	Lab Control Sample	107	101	
LCSD 880-58524/2-A	Lab Control Sample Dup	122	96	
MB 880-58524/5-A	Method Blank	99	89	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
)-4969-A-3-E MS	Matrix Spike	101	103	
)-4969-A-3-F MSD	Matrix Spike Duplicate	100	100	
)-4970-1	SW06	102	111	
)-4970-2	SW07	85	93	
)-4970-3	FS02A	167 S1+	177 S1+	
)-4970-4	FS03A	102	108	
S 880-58634/2-A	Lab Control Sample	73	84	
SD 880-58634/3-A	Lab Control Sample Dup	75	86	
880-58634/1-A	Method Blank	149 S1+	167 S1+	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client Sample ID: Method Blank

Client: Ensolum Job ID: 890-4970-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58524/5-A

Matrix: Solid Analysis Batch: 58520

Prep Type: Total/NA Prep Batch: 58524 MD MD

	IVIB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 11:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 11:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/26/23 09:29	07/26/23 11:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 11:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/26/23 09:29	07/26/23 11:44	1

MB MB Surrogate Qualifier %Recovery Limits Prepared Dil Fac Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 07/26/23 09:29 07/26/23 11:44 99 89 70 - 130 07/26/23 09:29 07/26/23 11:44 1,4-Difluorobenzene (Surr)

Lab Sample ID: LCS 880-58524/1-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Prep Type: Total/NA Analysis Batch: 58520 Prep Batch: 58524

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09277		mg/Kg		93	70 - 130	
Toluene	0.100	0.09626		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.08762		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1674		mg/Kg		84	70 - 130	
o-Xylene	0.100	0.08390		mg/Kg		84	70 - 130	

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 107 101 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: LCSD 880-58524/2-A

Matrix: Solid Prep Type: Total/NA Analysis Batch: 58520 LCSD LCSD Spike

	Spike	LCOD	LCSD				/orec		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1036		mg/Kg		104	70 - 130	11	35	
Toluene	0.100	0.1173		mg/Kg		117	70 - 130	20	35	
Ethylbenzene	0.100	0.1118		mg/Kg		112	70 - 130	24	35	
m-Xylene & p-Xylene	0.200	0.2197		mg/Kg		110	70 - 130	27	35	
o-Xylene	0.100	0.1100		mg/Kg		110	70 - 130	27	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-31221-A-1-A MS

Matrix: Solid									Prep '	Type: Total/NA
Analysis Batch: 58520									Prep	Batch: 58524
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0996	0.1008		mg/Kg		101	70 - 130	
Toluene	< 0.00202	U	0.0996	0 1043		ma/Ka		105	70 _ 130	

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Prep Batch: 58524

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike

Prep Batch: 58524

Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58634

QC Sample Results

Client: Ensolum Job ID: 890-4970-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

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

Lab Sample ID: 880-31221-A-1-A MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 58520

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00202	U	0.0996	0.09476		mg/Kg		95	70 - 130	 	
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1797		mg/Kg		90	70 - 130		
o-Xylene	<0.00202	U	0.0996	0.08933		mg/Kg		90	70 - 130		

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 109 1,4-Difluorobenzene (Surr) 102 70 - 130

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 880-31221-A-1-B MSD

Matrix: Solid

Analysis Batch: 58520									Prep	Batch:	58524
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0998	0.09942		mg/Kg		100	70 - 130	1	35
Toluene	<0.00202	U	0.0998	0.1063		mg/Kg		107	70 - 130	2	35
Ethylbenzene	<0.00202	U	0.0998	0.09813		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1883		mg/Kg		94	70 - 130	5	35
o-Xylene	<0.00202	U	0.0998	0.09388		mg/Kg		94	70 - 130	5	35

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 100 70 - 130

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

Lab Sample ID: MB 880-58634/1-A

Matrix: Solid

Analysis Batch: 58963

_	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/27/23 08:51	08/01/23 07:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/27/23 08:51	08/01/23 07:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/27/23 08:51	08/01/23 07:24	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 1-Chlorooctane 149 S1+ 07/27/23 08:51 08/01/23 07:24 07/27/23 08:51 o-Terphenyl 167 S1+ 70 - 130 08/01/23 07:24

Lab Sample ID: LCS 880-58634/2-A **Client Sample ID: Lab Control Sample**

Analysis Batch: 58963

Matrix: Solid

	Spike	LUS	LUS				70 KeC
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	928.3		mg/Kg		93	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	668.8	*-	mg/Kg		67	70 - 130
C10-C28)							

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Prep Type: Total/NA

Prep Batch: 58634

Job ID: 890-4970-1 Client: Ensolum Project/Site: Poker Lake Unit 224

SDG: 03C1558244

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

Lab Sample ID: LCS 880-58634/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 58963

Prep Batch: 58634 LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 73 70 - 130 o-Terphenyl 84 70 - 130

Lab Sample ID: LCSD 880-58634/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 58963 Prep Batch: 58634

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 995.4 100 70 - 13020 Gasoline Range Organics mg/Kg 7 (GRO)-C6-C10 Diesel Range Organics (Over 1000 723.1 mg/Kg 72 70 - 13020 8 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 75 70 - 130 1-Chlorooctane 86 70 - 130 o-Terphenyl

Lab Sample ID: 890-4969-A-3-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 58963

Prep Batch: 58634 Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits

Gasoline Range Organics <50.4 U 996 918.5 mg/Kg 88 70 - 130 (GRO)-C6-C10 64.9 *-Diesel Range Organics (Over 996 858.8 mg/Kg 80 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 101 o-Terphenyl 103 70 - 130

Lab Sample ID: 890-4969-A-3-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

o-Terphenyl

Analysis Batch: 58963 Prep Batch: 58634

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U 996 813.1 Gasoline Range Organics <50.4 mg/Kg 77 70 - 130 12 20 (GRO)-C6-C10 Diesel Range Organics (Over 64.9 *-996 840.0 mg/Kg 78 70 - 130 2 20 C10-C28)

70 - 130

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

100

Eurofins Carlsbad

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-4970-1 Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58217/1-A

Matrix: Solid

Analysis Batch: 58468

мв мв

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 07/25/23 11:37

Lab Sample ID: LCS 880-58217/2-A

Matrix: Solid

Analysis Batch: 58468

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 242.2 mg/Kg 97 90 - 110

Lab Sample ID: LCSD 880-58217/3-A

Matrix: Solid

Analysis Batch: 58468

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits RPD Limit Chloride 250 242.6 mg/Kg 90 - 110

Lab Sample ID: 890-4968-A-21-B MS

Matrix: Solid

Analysis Batch: 58468

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits 328.6 F1 Chloride 44.1 F1 251 114 90 - 110 mg/Kg

Lab Sample ID: 890-4968-A-21-C MSD

Matrix: Solid

Analysis Batch: 58468

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	44.1	F1	251	328.9	F1	mg/Kg		114	90 - 110	0	20

QC Association Summary

Client: Ensolum Job ID: 890-4970-1
Project/Site: Poker Lake Unit 224 SDG: 03C1558244

GC VOA

Analysis Batch: 58520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Total/NA	Solid	8021B	58524
890-4970-2	SW07	Total/NA	Solid	8021B	58524
890-4970-3	FS02A	Total/NA	Solid	8021B	58524
890-4970-4	FS03A	Total/NA	Solid	8021B	58524
MB 880-58524/5-A	Method Blank	Total/NA	Solid	8021B	58524
LCS 880-58524/1-A	Lab Control Sample	Total/NA	Solid	8021B	58524
LCSD 880-58524/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58524
880-31221-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	58524
880-31221-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58524

Prep Batch: 58524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Total/NA	Solid	5035	
890-4970-2	SW07	Total/NA	Solid	5035	
890-4970-3	FS02A	Total/NA	Solid	5035	
890-4970-4	FS03A	Total/NA	Solid	5035	
MB 880-58524/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58524/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58524/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31221-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-31221-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 58609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Total/NA	Solid	Total BTEX	
890-4970-2	SW07	Total/NA	Solid	Total BTEX	
890-4970-3	FS02A	Total/NA	Solid	Total BTEX	
890-4970-4	FS03A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Total/NA	Solid	8015NM Prep	
890-4970-2	SW07	Total/NA	Solid	8015NM Prep	
890-4970-3	FS02A	Total/NA	Solid	8015NM Prep	
890-4970-4	FS03A	Total/NA	Solid	8015NM Prep	
MB 880-58634/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58634/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58634/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4969-A-3-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4969-A-3-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Total/NA	Solid	8015B NM	58634
890-4970-2	SW07	Total/NA	Solid	8015B NM	58634
890-4970-3	FS02A	Total/NA	Solid	8015B NM	58634
890-4970-4	FS03A	Total/NA	Solid	8015B NM	58634
MB 880-58634/1-A	Method Blank	Total/NA	Solid	8015B NM	58634
LCS 880-58634/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58634

QC Association Summary

Client: Ensolum

Project/Site: Poker Lake Unit 224

SDG: 03C1558244

GC Semi VOA (Continued)

Analysis Batch: 58963 (Continued)

Lab Sample	ID Client Sample ID	Prep Typ	e Matrix	Method	Prep Batch
LCSD 880-58	B634/3-A Lab Control Sample D	up Total/NA	Solid	8015B NM	58634
890-4969-A-	3-E MS Matrix Spike	Total/NA	Solid	8015B NM	58634
890-4969-A-	3-F MSD Matrix Spike Duplicate	Total/NA	Solid	8015B NM	58634

Analysis Batch: 59094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Total/NA	Solid	8015 NM	
890-4970-2	SW07	Total/NA	Solid	8015 NM	
890-4970-3	FS02A	Total/NA	Solid	8015 NM	
890-4970-4	FS03A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Soluble	Solid	DI Leach	
890-4970-2	SW07	Soluble	Solid	DI Leach	
890-4970-3	FS02A	Soluble	Solid	DI Leach	
890-4970-4	FS03A	Soluble	Solid	DI Leach	
MB 880-58217/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58217/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58217/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4968-A-21-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4968-A-21-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 58468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Soluble	Solid	300.0	58217
890-4970-2	SW07	Soluble	Solid	300.0	58217
890-4970-3	FS02A	Soluble	Solid	300.0	58217
890-4970-4	FS03A	Soluble	Solid	300.0	58217
MB 880-58217/1-A	Method Blank	Soluble	Solid	300.0	58217
LCS 880-58217/2-A	Lab Control Sample	Soluble	Solid	300.0	58217
LCSD 880-58217/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58217
890-4968-A-21-B MS	Matrix Spike	Soluble	Solid	300.0	58217
890-4968-A-21-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	58217

Job ID: 890-4970-1

Client: Ensolum Project/Site: Poker Lake Unit 224 SDG: 03C1558244

Client Sample ID: SW06 Lab Sample ID: 890-4970-1 Date Collected: 07/19/23 10:20

Matrix: Solid

Date Received: 07/20/23 09:22

	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	58524	07/26/23 09:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/26/23 15:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58609	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			59094	08/02/23 10:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58634	07/27/23 08:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58963	08/01/23 12:14	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58217	07/21/23 09:38	KS	EET MID
Soluble	Analysis	300.0		1			58468	07/25/23 12:42	CH	EET MID

Client Sample ID: SW07 Lab Sample ID: 890-4970-2

Date Collected: 07/19/23 12:35 Matrix: Solid

Date Received: 07/20/23 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	58524	07/26/23 09:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/26/23 16:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58609	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			59094	08/02/23 10:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	58634	07/27/23 08:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58963	08/01/23 12:36	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58217	07/21/23 09:38	KS	EET MID
Soluble	Analysis	300.0		1			58468	07/25/23 12:47	CH	EET MID

Client Sample ID: FS02A Lab Sample ID: 890-4970-3 Date Collected: 07/19/23 13:15 **Matrix: Solid**

Date Received: 07/20/23 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58524	07/26/23 09:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/26/23 16:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58609	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			59094	08/02/23 10:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58634	07/27/23 08:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58963	08/01/23 12:58	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58217	07/21/23 09:38	KS	EET MID
Soluble	Analysis	300.0		10			58468	07/25/23 12:51	CH	EET MID

Client Sample ID: FS03A Lab Sample ID: 890-4970-4 Date Collected: 07/19/23 13:25 **Matrix: Solid**

Date Received: 07/20/23 09:22

	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	58524	07/26/23 09:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/26/23 17:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58609	07/27/23 07:33	SM	EET MID

Eurofins Carlsbad

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Lab Chronicle

Client: Ensolum

Project/Site: Poker Lake Unit 224

SDG: 03C1558244

Client Sample ID: FS03A

Lab Sample ID: 890-4970-4

Matrix: Solid

Date Collected: 07/19/23 13:25 Date Received: 07/20/23 09:22

	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			59094	08/02/23 10:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	58634	07/27/23 08:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58963	08/01/23 13:20	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58217	07/21/23 09:38	KS	EET MID
Soluble	Analysis	300.0		5			58468	07/25/23 12:56	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4970-1 Project/Site: Poker Lake Unit 224

SDG: 03C1558244

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-23-26	06-30-24
The following analytes the agency does not of	• '	ut the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
		Solid	Total BTEX	

Method Summary

Client: Ensolum

Project/Site: Poker Lake Unit 224

SDG: 03C1558244

SDG: 03C1558244

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** TAL SOP Total BTEX EET MID 8015 NM Diesel Range Organics (DRO) (GC) SW846 **EET MID** 8015B NM Diesel Range Organics (DRO) (GC)

 SW846
 EET MID

 TAL SOP
 EET MID

 SW846
 EET MID

 SW846
 EET MID

 EPA
 EET MID

 SW846
 EET MID

 SW846
 EET MID

 ASTM
 EET MID

Protocol References:

300.0

5035

8015NM Prep

DI Leach

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Deionized Water Leaching Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1

300 ID. 030	1310-1
SDG: 03C15	58244

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4970-1	SW06	Solid	07/19/23 10:20	07/20/23 09:22	0 - 4
890-4970-2	SW07	Solid	07/19/23 12:35	07/20/23 09:22	0 - 4
890-4970-3	FS02A	Solid	07/19/23 13:15	07/20/23 09:22	5
890-4970-4	FS03A	Solid	07/19/23 13:25	07/20/23 09:22	5

Relinquis

eurofins Kenco **Environment Testing**

Phone:

City, State ZIP:

Carlsbad, NM 88220 3122 National Parks Hwy Company Name: Project Manager:

Ensolum Ben Belil

Company Name Bill to: (if different)

City, State ZIP: Address:

Carlsbad, NM 88220 3104 E. Green St. XTO Energy Garrett Green

Deliverables: EDD

ADaPT []

Other:

Reporting: Level II | Level III | PST/UST | TRRP |

Level IV

Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order Comments

www.xenco.com

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State of Project:

Address:

SAMPLE

Project Locati Project Numb Project Name

Chain of Custody

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

Work Order No:

hone: 303 roject Name: roject Number:	303-887-2946 Poker Lake Unit 224 03C1558244	e Unit 224 58244		Turn .	Email: Garrett.Green@ExxonMobil.com Turn Around Pres. Code	en@Exx	Muoxy W	lobil.cc	
roject Location:				Due Date:				ľ	
Sampler's Name:	Connor Whitman	Whitman		TAT starts the day received by the lab, if received by 4:30pm	day received lived by 4:30				
SAMPLE RECEIPT	Temp Blank	k: Yes	S No	Wet Ice:	(Yes) No	neter	.0)		
Samples Received Intact:	(Nes No		Thermometer ID:	7	المحال	aran	3000		T
Cooler Custody Seals:	Yes No [N/A Corre	Correction Factor:	יונ	10,0		PA: :		
Sample Custody Seals:	Yes No	N/A Jemp	emperature Reading	ading:	6 .0	_	(EF)
otal Containers:		Corre	Corrected Temperature:	erature:	5.8		IDES)15)	8021
Sample Identification		Matrix Sal	Date Sampled	Time Sampled	Depth Cc	Grab/ # of Comp Cont	CHLOR	TPH (80	втех (
SW06		S 7/1	7/19/2023	10:20	0-4 00	Comp 1	×	×	×
SW07		S 7/1	7/19/2023	12:35	0-4 Cc	Comp 1	×	×	×
FS02A		S 7/1	7/19/2023	1:15	5 Cc	Comp 1	×	×	×
FS03A		S 7/1	7/19/2023	1:25	5 Cc	Comp 1	×	×	×
		/							
					/				
					-/	/			C
		-						1	1
Total 200.7 / 6010	200.8 / 6020:	9.	8RC	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb	/ Texas	1 Al	Sb As	Bal	Зе В
ircle Method(s) and Metal(s) to be analyzed	/letal(s) to be a	nalyzed		TCLP / SPLP 6010: 8RCRA	LP 6010:	BRCRA		Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	Be
otice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors, it assigns standard terms and conditions (service, Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control for any losses are due to circumstances beyond the control for any losses are due to circumstances beyond the control for any losses are due to circumstances beyond the control for any losses are due to circumstances beyond the control for any losses are due to circumstances beyond the control for any losses are due to circumstances beyond the control for any losses are due to circumstances beyond the control for any losses are due to circumstances beyond the control for any losses are due to circumstances beyond the control for any losses are due to circumstances beyond the control for any losses are due to circumstances beyond the control for any losses are due to circumstances beyond the control for any losses are due to circumstances.	nent and relinquish I be liable only for t	ment of samp	les constitut nples and sh	es a valid purc all not assume ect and a char	hase order fro any responsit se of \$5 for ea	m client collity for ar	ompany ny losse submit	to Eurof	fins Xen
) ·			houired	Received hy: (Signature)	ro)	-	ויב	Date/Time	D

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4970-1

 SDG Number: 03C1558244

Login Number: 4970 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4970-1

SDG Number: 03C1558244

List Source: Eurofins Midland List Creation: 07/21/23 10:58 AM

Login Number: 4970 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	

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<6mm (1/4").



APPENDIX E

NMOCD Correspondance

From: Hamlet, Robert, EMNRD

To: Collins, Melanie

Cc: Green, Garrett J; Ben Belill; Tacoma Morrissey; DelawareSpills /SM; Bratcher, Michael, EMNRD; Harimon,

Jocelyn, EMNRD

Subject: (Extension Approval) - XTO - Poker Lake Unit 224 - Incident Number nAPP2310050120

Date: Wednesday, June 28, 2023 5:26:35 PM

Attachments: <u>image003.png</u>

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2310050120

Melanie,

Your request for an extension to **September 1st, 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: Collins, Melanie <melanie.collins@exxonmobil.com>

Sent: Wednesday, June 28, 2023 12:50 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov> **Cc:** Green, Garrett J <garrett.green@exxonmobil.com>; bbelill@ensolum.com; Tacoma Morrissey

<tmorrissey@ensolum.com>; DelawareSpills /SM <DelawareSpills@exxonmobil.com>
Subject: [EXTERNAL] XTO - Extension Request - Poker Lake Unit 224 - Incident Number

nAPP2310050120

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

All,

XTO is requesting an extension for the current deadline of July 3, 2023 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Poker Lake Unit 224 (Incident Number nAPP2310050120). The release occurred on April 4, 2023, and initial site assessment and delineation activities have been completed. Excavation activities were completed on June 27, 2023,

and laboratory analytical results are currently pending. In order to review laboratory analytical results and complete additional remediation activities or submit a remediation work plan or closure report, XTO requests an extension until September 1, 2023.

Thank you,

Melanie Collins

ENERGY

Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

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

Sent: Friday, July 14, 2023 9:44 AM

To: Collins, Melanie <melanie.collins@exxonmobil.com>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD

<Robert.Hamlet@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Updated XTO - Sampling Notification (Week of 7/17/23 - 7/21/23)

External Email - Think Before You Click

Melanie,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. The OCD has received your notification. When reporting sampling at multiple locations it is required to provide and date and time for each location. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JΗ

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



From: Collins, Melanie < melanie.collins@exxonmobil.com >

Sent: Thursday, July 13, 2023 2:56 PM

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

<mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>;

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

Cc: spills@slo.state.nm.us; Green, Garrett J spills@slo.state.nm.us; Green, Garrett <a href="mailto:spills@slo.state

Subject: [EXTERNAL] Updated XTO - Sampling Notification (Week of 7/17/23 - 7/21/23)

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 July 17, 2023.

Tuesday 7/18/23

- PLU 183Q / nAPP2315133557
- Remuda 500 Tank Battery / nAPP2317850727 (SLO)

Wednesday 7/19/23

- PLU 224 / nAPP2310050120
- Remuda 500 Tank Battery / nAPP2317850727 (SLO)

Thursday 7/20/23

- PLU 224 / nAPP2310050120
- James Ranch Unit 19 Battery / nAPP2317142256 (SLO)

Friday 7/21/23

• James Ranch Unit 19 Battery / nAPP2317142256 (SLO)

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

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

To: Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD
Cc: Ben Belill; Tacoma Morrissey; DelawareSpills /SM
Subject: XTO - Sampling Notification (Week of 6/19/23 - 6/23/23)

Date: Friday, June 16, 2023 10:18:06 AM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of June 19, 2023.

Thursday

- PLU 224 / nAPP2310050120
- PLU 183Q / nAPP2315133557

Friday

- PLU 224 / nAPP2310050120
- PLU 183Q / nAPP2315133557

Thank you,

Thank you,

Garrett Green

Environmental Coordinator Delaware Business Unit (575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

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

From: <u>Collins, Melanie</u>

To: ocd.enviro (ocd.enviro@emnrd.nm.gov); Bratcher, Michael, EMNRD (mike.bratcher@emnrd.nm.gov); Hamlet,

Robert, EMNRD (Robert.Hamlet@emnrd.nm.gov); Harimon, Jocelyn, EMNRD (Jocelyn.Harimon@emnrd.nm.gov)

Cc: <u>DelawareSpills /SM</u>; <u>Ben Belill</u>; <u>Green, Garrett J</u>

Subject: XTO - Sampling Notification (Week of 6/26/23 - 6/30/23)

Date: Wednesday, June 21, 2023 5:35:44 PM

Attachments: <u>image001.png</u>

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of June 26, 2023.

Monday

- PLU 224 / nAPP2310050120
- PLU 183Q / nAPP2315133557

Tuesday

- PLU 183Q / nAPP2315133557
- PLU 224 / nAPP2310050120

Wednesday

• PLU 147 / NRM2004445859

Thursday

• PLU 147 / NRM2004445859

Thank you,

Melanie Collins



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

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

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

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

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

CONDITIONS

Action 260834

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	260834
Γ.	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2310050120 POKER LAKE UNIT 224, thank you. This Remediation Closure Report is approved. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc, will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	1/24/2024